STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FISH AND GAME
BUREAU OF MARINE FISHERIES

FISH BULLETIN No. 57

The Commercial Fish Catch of California for the Years 1936-1939, Inclusive

BY THE STAFF OF THE
BUREAU OF MARINE FISHERIES

1940

92739

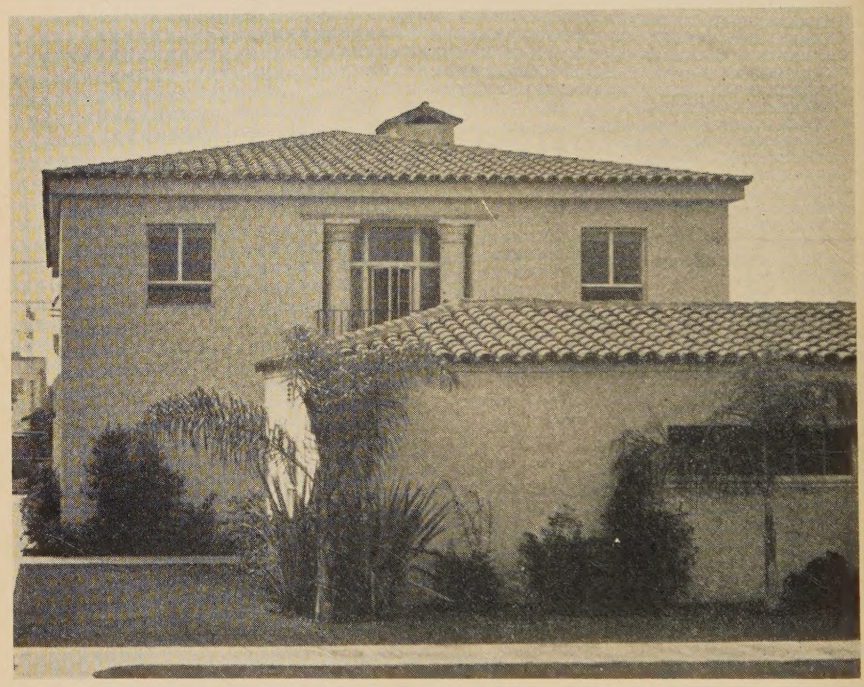

FIG. 1. The statistical building of the California State Fisheries Laboratory, Terminal Island. Expansion of the statistical program necessitated the erection of this $30,000 two-storied building which was first occupied in January, 1937. It provides working space for the statistical staff and the tabulating equipment as well as a fireproof vault for the storage of the records. In addition to statistics on the commercial fisheries, there have been added the marine sport catch, the anglers' catch from inland waters, the game kill and the detailed deer kill record.

FOREWORD

Sixth in a series of bulletins dealing with the commercial fish landings in California, this issue is designed to make public these statistical records for the years 1936 to 1939, inclusive. Added to its scope are notes on the marine sport catch, records for which were available for the first time in 1936.

The publication is the work of members of the staff of the Bureau of Marine Fisheries of the Division of Fish and Game, particularly of the statistical unit of the California State Fisheries Laboratory. The cooperation of the Division's Bureau of Patrol and Law Enforcement in the collection of the original material is gratefully acknowledged.

October, 1940

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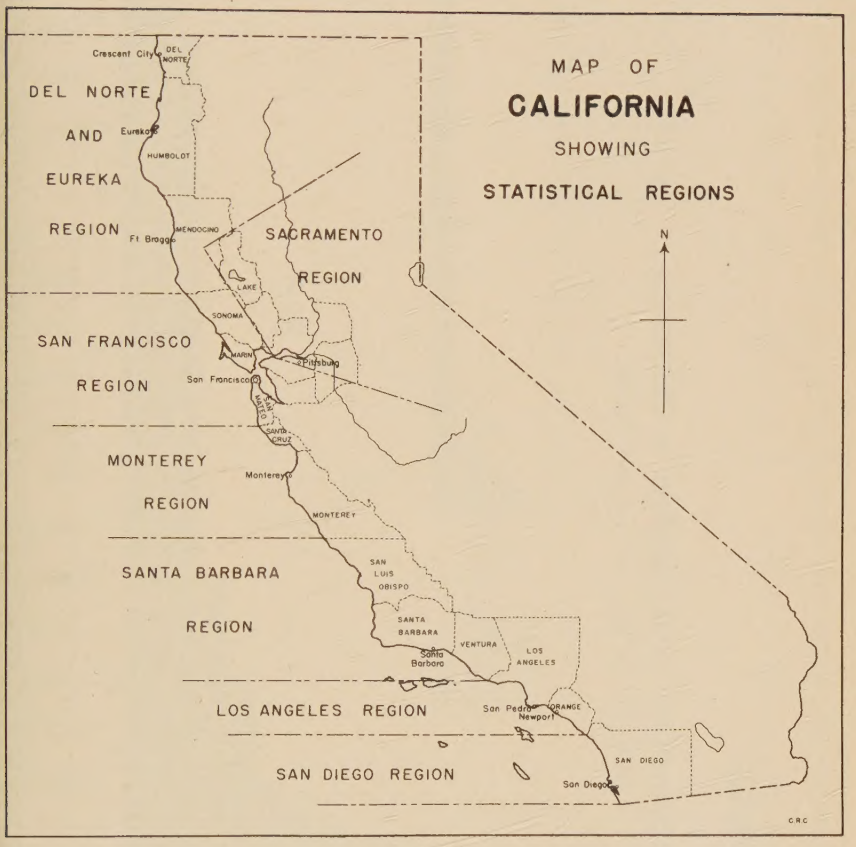
MAP OF
CALIFORNIA
SHOWING
STATISTICAL REGIONS
N
DEL NORTE AND EUREKA REGION
SACRAMENTO REGION
SAN FRANCISCO REGION
MONTEREY REGION
SANTA BARBARA REGION
LOS ANGELES REGION
SAN DIEGO REGION
Crescent City
DEL NORTE
Eureka
HUMBOLDT
Ft Bragg
MENDOCINO
LAKE
SONOMA
MARIN
San Francisco
Petaluma
SAN MATEO
SANTA CRUZ
Monterey
MONTEREY
SAN LUIS OBISPO
SANTA BARBARA
Santa Barbara
VENTURA
LOS ANGELES
San Pedro
Newport
ORANGE
SAN DIEGO
San Diego
C.R.C.

FIG. 2

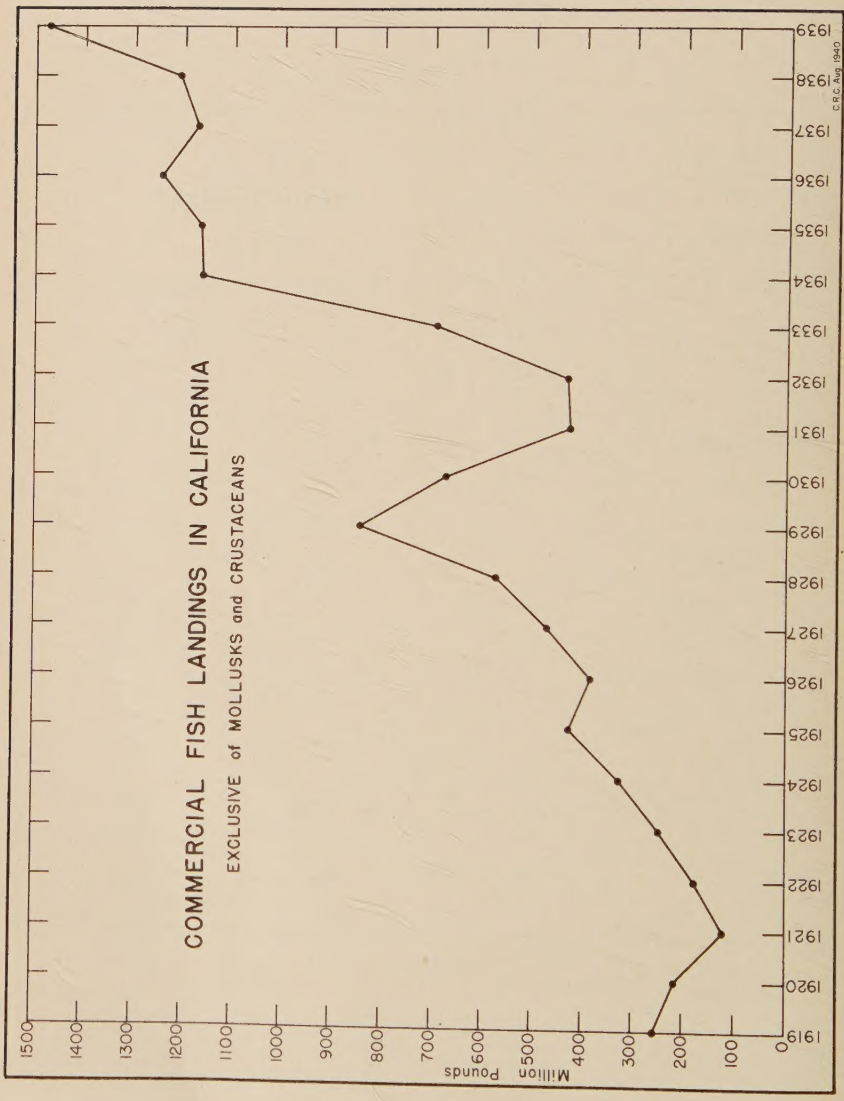
COMMERCIAL FISH LANDINGS IN CALIFORNIA
EXCLUSIVE of MOLLUSKS and CRUSTACEANS
Million Pounds
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
C.F.&G. Aug. 1940

FIG. 3

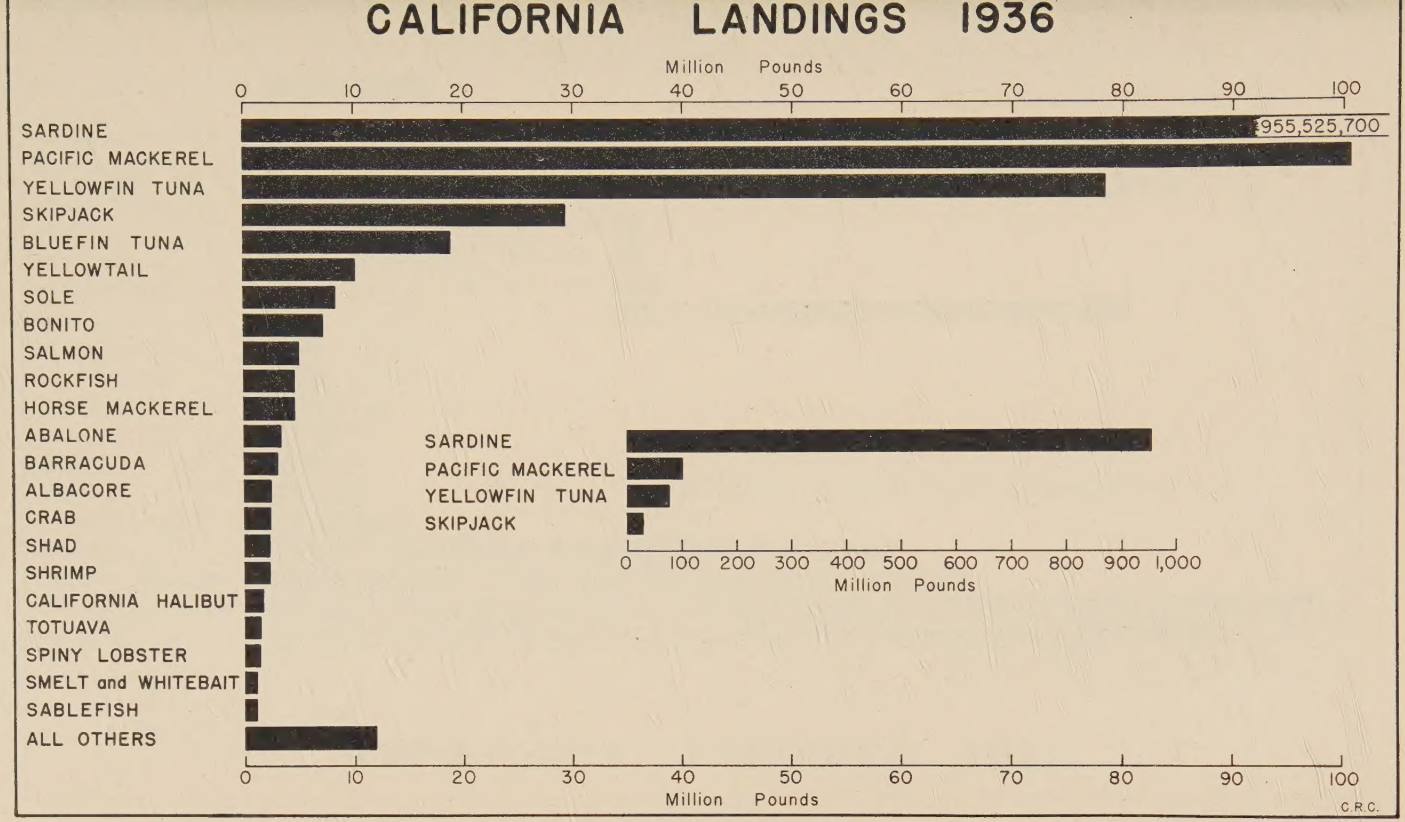
CALIFORNIA LANDINGS 1936
Million Pounds
0 10 20 30 40 50 60 70 80 90 100
SARDINE
PACIFIC MACKEREL
YELLOWFIN TUNA
SKIPJACK
BLUEFIN TUNA
YELLOWTAIL
SOLE
BONITO
SALMON
ROCKFISH
HORSE MACKEREL
ABALONE
BARRACUDA
ALBACORE
CRAB
SHAD
SHRIMP
CALIFORNIA HALIBUT
TOTUAVA
SPINY LOBSTER
SMELT and WHITEBAIT
SABLEFISH
ALL OTHERS
955,525,700
SARDINE
PACIFIC MACKEREL
YELLOWFIN TUNA
SKIPJACK
0 100 200 300 400 500 600 700 800 900 1,000
Million Pounds
0 10 20 30 40 50 60 70 80 90 100
Million Pounds
C.R.C.

FIG. 4

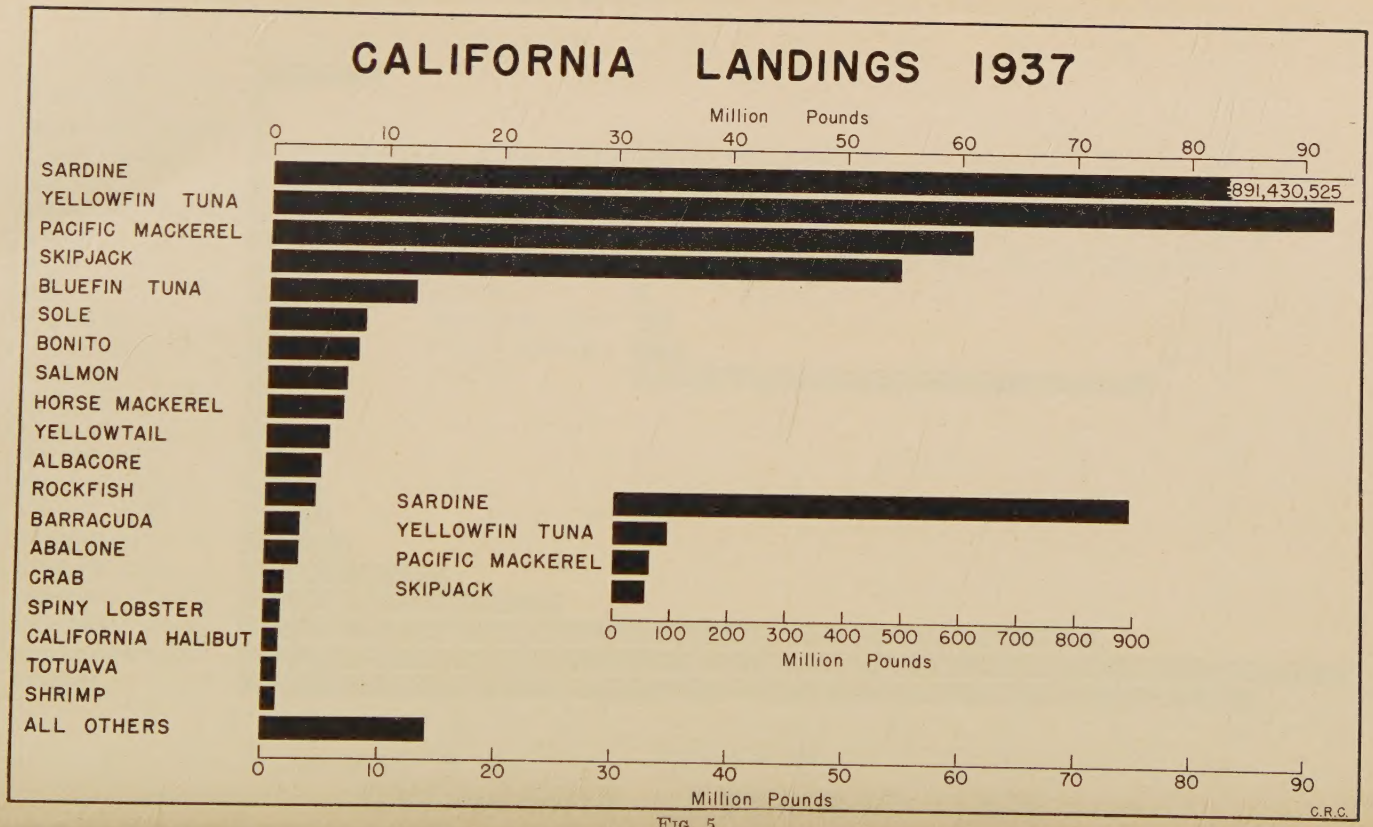
CALIFORNIA LANDINGS 1937
Million Pounds
0 10 20 30 40 50 60 70 80 90
SARDINE
YELLOWFIN TUNA
PACIFIC MACKEREL
SKIPJACK
BLUEFIN TUNA
SOLE
BONITO
SALMON
HORSE MACKEREL
YELLOWTAIL
ALBACORE
ROCKFISH
BARRACUDA
ABALONE
CRAB
SPINY LOBSTER
CALIFORNIA HALIBUT
TOTUAVA
SHRIMP
ALL OTHERS
891,430,525
SARDINE
YELLOWFIN TUNA
PACIFIC MACKEREL
SKIPJACK
0 100 200 300 400 500 600 700 800 900
Million Pounds
0 10 20 30 40 50 60 70 80 90
Million Pounds
C.R.C.

FIG. 5

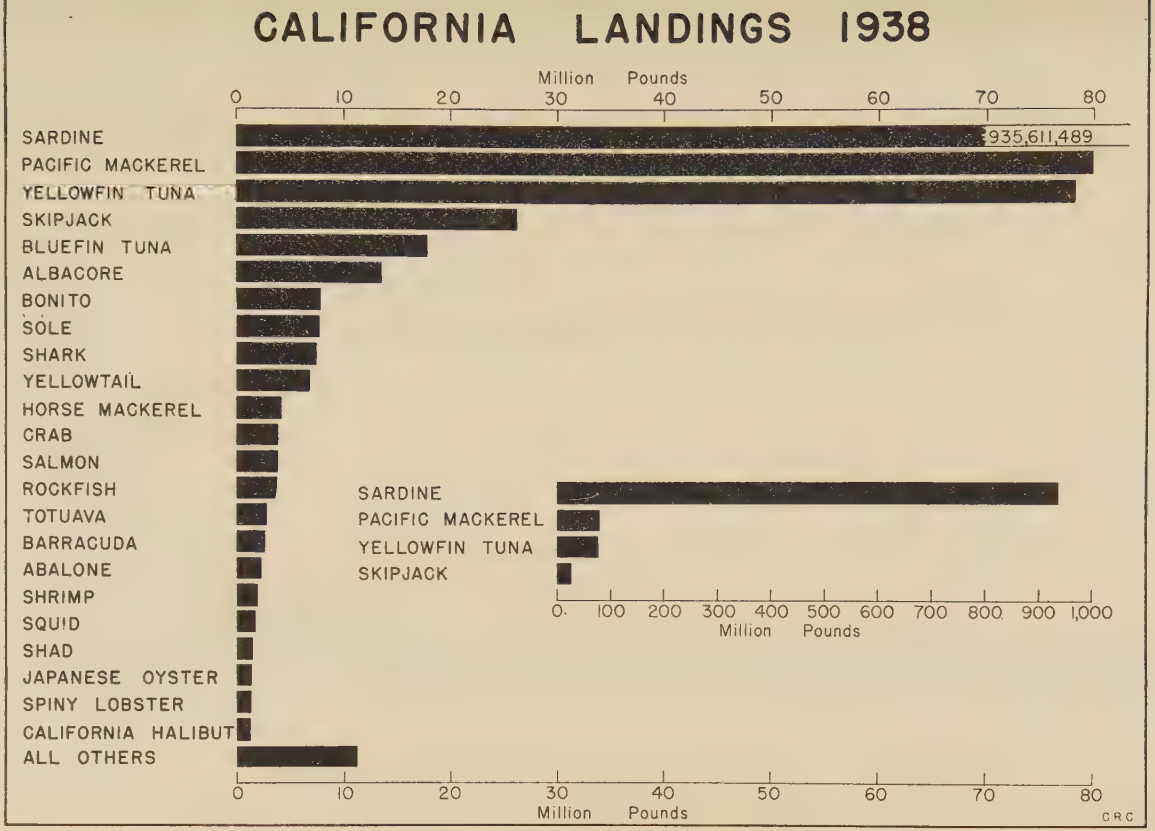
CALIFORNIA LANDINGS 1938
Million Pounds
0 10 20 30 40 50 60 70 80
SARDINE
PACIFIC MACKEREL
YELLOWFIN TUNA
SKIPJACK
BLUEFIN TUNA
ALBACORE
BONITO
SOLE
SHARK
YELLOWTAIL
HORSE MACKEREL
CRAB
SALMON
ROCKFISH
TOTUAVA
BARRACUDA
ABALONE
SHRIMP
SQUID
SHAD
JAPANESE OYSTER
SPINY LOBSTER
CALIFORNIA HALIBUT
ALL OTHERS
935,611,489
SARDINE
PACIFIC MACKEREL
YELLOWFIN TUNA
SKIPJACK
0 100 200 300 400 500 600 700 800 900 1,000
Million Pounds
0 10 20 30 40 50 60 70 80
Million Pounds
CRC

FIG. 6

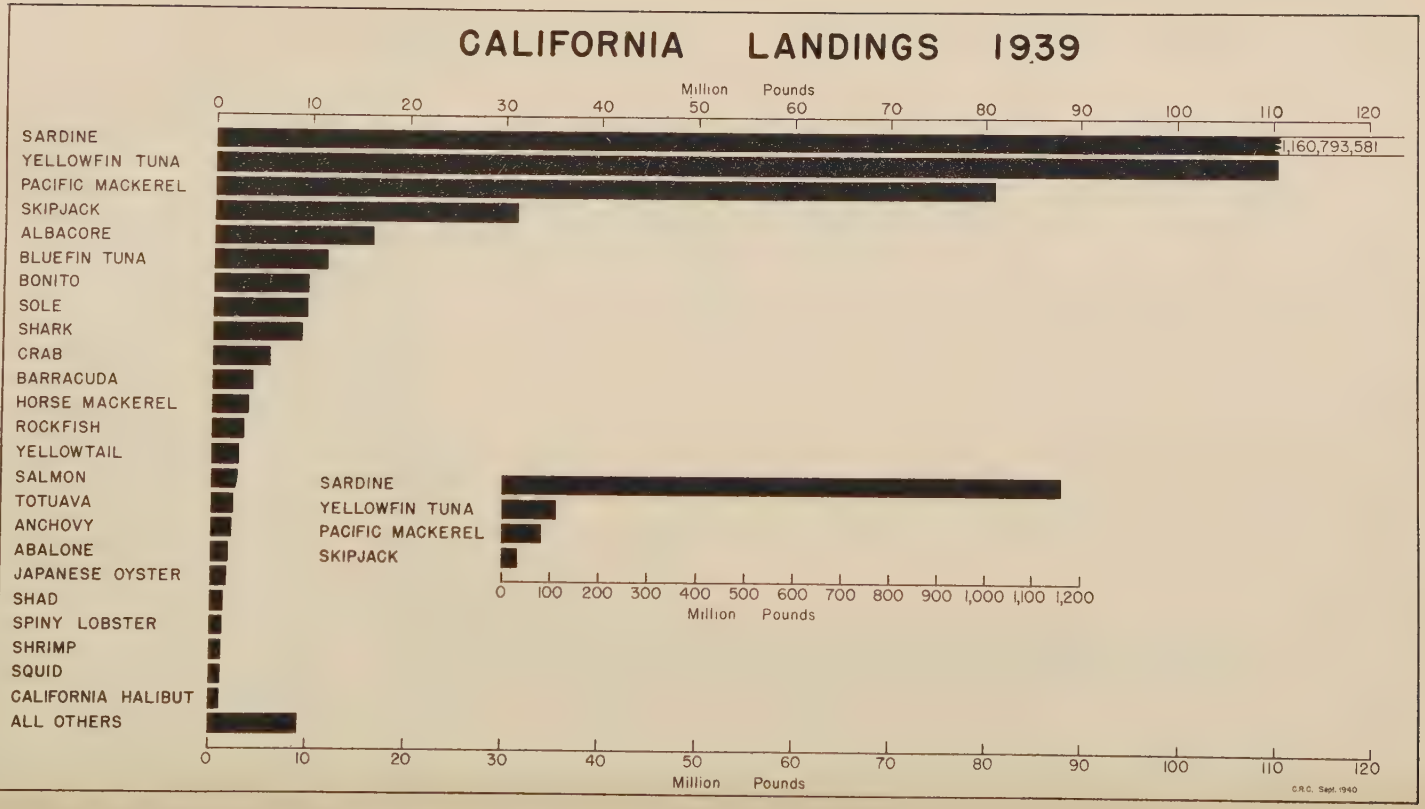
CALIFORNIA LANDINGS 1939
Million Pounds
0 10 20 30 40 50 60 70 80 90 100 110 120
SARDINE
YELLOWFIN TUNA
PACIFIC MACKEREL
SKIPJACK
ALBACORE
BLUEFIN TUNA
BONITO
SOLE
SHARK
CRAB
BARRACUDA
HORSE MACKEREL
ROCKFISH
YELLOWTAIL
SALMON
TOTUAVA
ANCHOVY
ABALONE
JAPANESE OYSTER
SHAD
SPINY LOBSTER
SHRIMP
SQUID
CALIFORNIA HALIBUT
ALL OTHERS
1,160,793,581
SARDINE
YELLOWFIN TUNA
PACIFIC MACKEREL
SKIPJACK
0 100 200 300 400 500 600 700 800 900 1,000 1,100 1,200
Million Pounds
0 10 20 30 40 50 60 70 80 90 100 110 120
Million Pounds
C.R.C. Sept. 1940

FIG. 7

RENDS IN THE COMMERCIAL FISH CATCH OF CALIFORNIA, 1936-1939

The commercial fish catch of this State for the last twenty-five ars has been dominated by those species caught in great quantities r preservation by canning. It is this huge cannery catch that has ade California the leading state of the Union in volume of fish har- sted from the sea. It follows, therefore, that major changes from ar to year in this volume are to be explained by changes in the catch relatively few species that are delivered to packing plants. Of these ecies, the sardine dominates the picture because the catch of this one h is more than double the take of all other varieties combined. The tal catch of the State usually is determined by changes in the deliv- ies of this one species so that the picture of the State's total as shown figure 3 is practically the trend of the sardine catch. The landings mackerel and the various kinds of tuna bulk large but are secondary the great volume of sardines unloaded at the canneries and reduction ants.

Because of increased utilization of fish for canning, the total catch the State has increased greatly since the depression years of 1931 d 1932. (See Fig. 3.) The average annual catch for the last four ars (1936-1939) has been 1,287,000,000 pounds, as compared to 7,000,000 pounds for the four preceding years (1932-1935) and the 39 catch of 1,486,000,000 pounds is the greatest in the history of e State. This increase is chiefly due to an enlarged fleet of purse iners for sardine fishing and additional refrigerated boats for the tching of tuna.

We request the reader to remember that the catch represents fish moved from the water, not the supply in the sea. Increased catch ay be the result of increased fishing effort and not of increased undance in the ocean. In fact a large catch often is made in spite declining abundance of fish up to the point where the supply fails d the fishery suffers a collapse.

The highlights of the fish catch for the last four years have been:) the continued landings of sardines in huge amounts with a 1939 tch of more than a billion pounds, (2) a substantial increase in the liveries of yellowfin tuna to a peak of 110,400,000 pounds in 1939, d (3) a significant decline in the catch of mackerel in spite of creased fishing effort. Two lesser fisheries have displayed spectacular atures, one a revived fishery for albacore and the other an entirely w development—the shark fishery.

The albacore, prior to 1926, was one of the State's leading fisheries t for a period of 12 years thereafter the catch did not exceed 5 mil- n pounds. In 1938 this catch jumped to more than 13 million unds, and the 1939 catch was over 16 million. The local catch off our rn State was materially augmented by fish caught in the waters off

Oregon and Washington. There was also a considerable fishery developed at Monterey, whereas in former years the landings at that port were only nominal.

The new development was the sudden change from regarding sharks as a useless nuisance to a scramble among fishermen to capture these newly valuable fishes. The explanation lies in the discovery that sharks in general and soupfin sharks in particular contain in their liver oil a high potency of vitamin A, so much desired for use in fortifying other oils that are used in stock foods. In former years the shark catch of the State was less than a million pounds annually, but after this discovery the 1938 catch jumped to 7½ million pounds, followed in 1939 by a catch of more than 9 million. The price of soupfin sharks has soared to as much as $200 a ton.—*W. L. Scofield.*

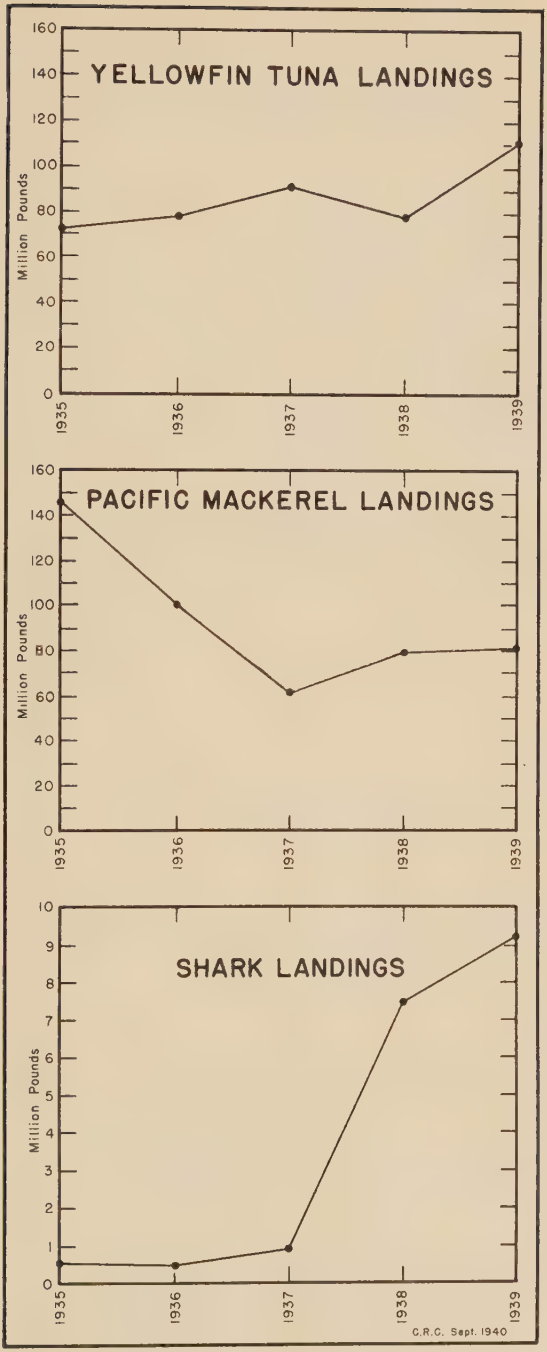

FIG. 8. The construction of many new tuna boats of 300- and 400-ton capacity made possible the increase in yellowfin tuna landings. Despite many additions the mackerel fleet, the increased effort has not brought commensurate returns and less added protection is given to the mackerel this species will be relegated to mmercial oblivion. Increased demand for shark livers which contain vitamin A is ected in the skyrocketing shark catch.

SPORT FISHING CATCHES

Although this bulletin is concerned primarily with commercial catches it should not be inferred that market and cannery landings account for the entire volume of the fish caught along the California coast—far from it. Sport fishermen in ever increasing numbers are turning to ocean fishing and their catches of some species now actually exceed commercial catches.

During the last twenty years a considerable sport fishing industry has sprung up on our coast, particularly in southern California. There are now several hundred boats, the only or principal occupation of which is to take out fishing parties. As the growth of this fishery was observed, it became apparent to the California Division of Fish and Game that no study of fish catches could be complete without including a measure of the catches made by the anglers. It was obvious that commercial catch records dealt with only a portion of the fish taken and that sportsmen's catches, composed of the same species, played an important part in the general picture of fish abundance and utilization. Consequently, preliminary work on obtaining party boat catch records was started in 1932, and on the passage of necessary legislation a full-fledged program was inaugurated in 1936. Under the terms of the law enacted by the 1935 Legislature, all boats carrying fishermen for hire must keep daily records of their operations. As at least 80 per cent of the fish caught by sportsmen is taken on these boats, their records give an excellent idea of the magnitude of ocean sport fishing as well as providing a sound basis for formulating management policies.

A brief summary of the catches made from the various kinds of passenger fishing boats and barges that operate in ocean waters is presented in the accompanying table. It must be remembered that the figures do not include the catches of anglers fishing from the shore, piers or private boats.—*Richard S. Croker.*

TABLE 1

Ocean Catches of Sportfishing Boats Operating in California* Pounds of Fish Reported

Species	1936	1937	1938
Barracuda	2,399,177	2,991,501	1,636,074
Yellowtail	1,231,795	821,699	648,905
Rock Bass and Kelp Bass	705,114	470,518	901,488
Pacific Mackerel	480,384	565,437	543,623
Rockfish	309,467	410,168	427,662
California Halibut	322,277	254,249	207,452
White Sea-bass	132,550	117,767	163,131
Tuna, Yellowfin	345,994	25,545	15,096
Tuna, Bonito	97,610	192,771	58,776
Tuna, Bluefin	49,773	65,695	226,461
All others	290,886	488,175	537,982
Totals	6,365,027	6,403,525	5,364,348

* Includes catches made by California boats fishing in Mexican waters.

COMMERCIAL FISHERMEN

There has been a steady increase in the number of licensed commercial fishermen operating in California waters over the past four-year period. Part of this is an actual increase but some credit for the mounting license sales must be given to the marine patrol with its fleet of new boats and its closer check on the fishermen. Sport fishermen and small pleasure boat owners in growing numbers are finding it profitable to sell their excess catches, and to do so legally they must have commercial fishing licenses. The revived runs of albacore and

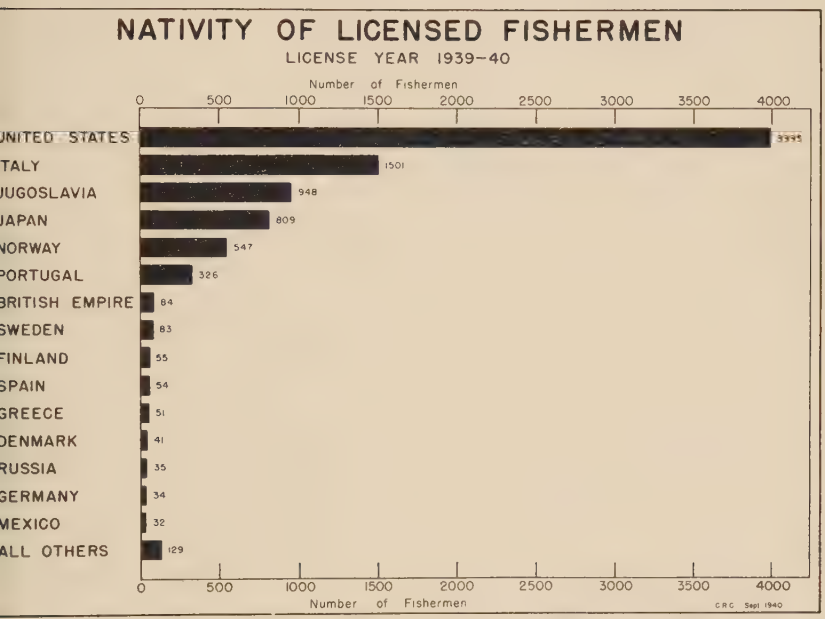

FIG. 9

the operation of small craft in the mackerel fishery account for some of the additional fishermen in recent years.

The Santa Barbara region is small compared with others but it has made the greatest percentage gain in the numbers of fishermen operating there—over 45 per cent for the past four years. Fishing activities have increased in the waters off San Luis Obispo, Ventura and Santa Barbara counties for several reasons. The rockfish and abalone fishermen from Monterey have found it necessary to fish further south, the Los Angeles fishermen have gone north for albacore, a large number of fishermen have entered the new shark fishery, and improvements in the harbor at Port Hueneme have encouraged the local fishermen.

Because of the general world-wide unrest, there is a great deal of interest in the nativity of the fishermen operating in our coastal waters. But the presentation of this record in the accompanying chart and tables has not been motivated by foreign wars, State legislation proposed in connection with foreign born fishermen, and exaggerations in current magazine articles of the number of Orientals fishing in California. Nativity records have been routine for years, since only one-third of the commercial fishermen give the United States as their birthplace and it happens that the type of gear and the place of birth go hand in hand with some fishing practices.

Citizenship as well as nativity is of interest, but in the past we have not had a record suitable to use in official reports. We know that the number of fishermen who report that they have taken out first and second citizenship papers increases each year. For the 1939-1940 license year the percentage of citizens among the foreign born fishermen was high; the detailed citizenship record is shown in table 2.

TABLE 2

1939-1940 Licensed Commercial Fishermen

Nativity or race	Citizenship not stated	Alien	First papers	Full citizenship	Total fishermen
United States (less Orientals)				3,748	3,748
Italy	115	273	536	577 (38%)	1,501
Japan		807		213 (21%)	1,020
Jugoslavia	45	21	219	663 (70%)	948
Norway	5	5	104	433 (79%)	547
Portugal	14	140	46	126 (39%)	326
China		1		38	39
All other foreign born	52	101	134	308 (52%)	595
Total fishermen	231	1,348	1,039	6,106	8,724

In figure 9 and tables 3 and 4, fishermen born in the United States of Oriental parents are included under the United States classification, as this is the country of their nativity and by reason of their birth here they have attained full citizenship rights. To complete the picture, we list the American fishermen with Oriental parents:

	Fishermen born in the United States of	
	Chinese parentage	*Japanese parentage*
1936-1937	46	111
1937-1938	39	131
1938-1939	43	177
1939-1940	38	213

Each year fishermen come south from Alaska, Washington and Oregon to fish commercially in California waters. These men have been included in the nativity tables and in figure 9, and the segregation by place of residence for the four-year period is:

	Alaska	*Washington*	*Oregon*	*Total out-of-state fishermen*
1936-1937	10	426	30	466
1937-1938	5	469	53	527
1938-1939	4	293	12	309
1939-1940	18	383	31	432

The commercial fishing license year runs from April 1 of one year through March 31 of the next, and for that reason the records are given

r the license year rather than the calendar year. The license fee is 0 for citizens and aliens alike.—*Geraldine Conner.*

TABLE 3

Number of Commercial Fishermen, License Year 1939-1940

Region of residence	Nativity	Number
Norte and Eureka	United States	153
	Finland	36
	All others	68
	Total	257
amento	United States	244
	Italy	149
	Greece	27
	All others	28
	Total	448
Francisco	United States	451
	Italy	436
	Norway	257
	Jugoslavia	97
	Japan	54
	All others	92
	Total	1,387
nterey	United States	551
	Italy	414
	Japan	71
	Spain	38
	All others	89
	Total	1,163
ta Barbara	United States	233
	All others	65
	Total	298
Angeles	United States	1,509
	Jugoslavia	755
	Japan	538
	Italy	215
	Norway	57
	All others	195
	Total	3,269
Diego	United States	710
	Portugal	265
	Italy	262
	Japan	145
	Mexico	26
	All others	62
	Total	1,470
ka, Washington and Oregon fishermen licensed in California	Norway	197
	United States	153
	Jugoslavia	64
	All others	18
	Total	432
Total licensed fishermen, 1939-1940		8,724

TABLE 4

Nativity of Commercial Fishermen

1936-1937		1937-1938		1938-1939		1939-1940	
Country of birth	Number of fishermen	Country of birth	Number of fishermen	Country of birth	Number of fishermen	Country of birth	Number of fishermen
United States	2,625	United States	2,982	United States	3,304	United States	3,995
Italy	1,397	Italy	1,385	Italy	1,407	Italy	1,501
Japan	906	Japan	943	Jugoslavia	895	Jugoslavia	948
Jugoslavia	822	Jugoslavia	891	Japan	872	Japan	809
Norway	406	Norway	521	Norway	483	Norway	547
Portugal	258	Portugal	289	Portugal	263	Portugal	326
Finland	73	Finland	100	British Empire	81	British Empire	84
British Empire	67	British Empire	75	Sweden	62	Sweden	83
Sweden	62	Sweden	72	Greece	55	Finland	55
Spain	56	Greece	55	Finland	54	Spain	54
Denmark	52	Russia	51	Spain	44	Greece	51
Greece	50	Spain	46	Russia	43	Denmark	41
Russia	46	Denmark	45	Denmark	36	Russia	35
Germany	34	Mexico	43	Mexico	36	Germany	34
Mexico	26	Germany	38	Germany	35	Mexico	32
All others	101	All others	129	All others	123	All others	129
Total licensed fishermen	6,981		7,665		7,793		8,724

COMMERCIAL FISHING FLEET

The census of the commercial fishing fleet shows a steady increase n the types and sizes of boats following the fisheries which are on the p-grade or which are at the height of activity. The mackerel fishery n the south has brought out almost every small craft that can float. ll along the coast the boom in the shark fishery has been the reason or recommissioning many old boats and building new ones. Many new urse seiners were built for the sardine fishery. Perhaps the greatest ncrease was caused by the number of pleasure boats which were efitted for commercial fishing or whose equipment was increased to ermit their use in a semicommercial capacity as party fishing boats. hese boats ferry paying guests to the fishing grounds and the excess atches are sold to the markets when the boats return to port. In 1935 law was enacted requiring operators of fishing party vessels to obtain permit from the Division of Fish and Game. In 1937 the law was mended to include boats operating on inland waters, and the number f boats requiring permits has more than doubled in the past four ears.

Fishing Party Vessel Permits Issued

1936	266
1937	417
1938	574
1939	568

The commercial fishing boat registration follows the commercial shing license year from April 1 of one year through March 31 of the ext, but the party permit is issued on the basis of the calendar ear.—*Geraldine Conner.*

TABLE 5

Commercial Fishing Fleet

Region of home port	Number of boats operating in California			
	1936-1937	1937-1938	1938-1939	1939-1940
el Norte-Eureka	187	199	205	206
cramento	243	270	319	283
n Francisco	471	485	563	538
onterey	321	331	345	391
nta Barbara	120	109	130	156
s Angeles	879	953	1,027	1,071
n Diego	290	307	318	320
aska, Washington and Oregon	148	186	149	145
exico and Panama	1	3	1	0
Totals	2,660	2,843	3,057	3,110

TABLE 6

Commercial Fishing Fleet, 1939-1940

Region of home port	Number of boats, grouped by length in feet					Total number of boats from each region
	Up to 24 feet	25 to 39 feet	40 to 64 feet	65 to 84 feet	85 feet and over	
Del Norte-Eureka	13	172	21			206
Sacramento	115	163	5			283
San Francisco	32	413	63	25	5	538
Monterey	122	173	41	54	1	391
Santa Barbara	50	84	21	1		156
Los Angeles	228	492	195	118	38	1,071
San Diego	48	117	76	28	51	320
Alaska, Washington and Oregon		31	35	72	7	145
Total number of boats in each length group	608	1,645	457	298	102	3,110

TABLES OF COMMERCIAL FISH LANDINGS IN CALIFORNIA, 1936-1939

Contents of Tables

The tables of commercial fish landings in California during 1936, 1937, 1938 and 1939 contain, as they have in the past: (1) the record of fresh and frozen commercial fish [1] landed in California by the fishing boats making the catches, (2) the record of shipments of fresh and frozen fish from other states and foreign countries to California canneries, and (3) the record of shipments of fresh and frozen fish from other states and foreign countries to California fresh fish markets.

State laws which require the reporting of the first two records to the Division of Fish and Game insure their completeness. The third, which is reported voluntarily, is incomplete. Some of the fresh and frozen fish shipments from other states and foreign countries which the tables do not include are: crab and crayfish from Oregon; salmon and halibut from Oregon, Washington and Alaska; clams and oysters from Oregon and Washington; shrimp from Washington, Alaska and the Gulf of Mexico (only a very small proportion of the shrimp from the Gulf of California is reported); farm-raised trout from western states; fresh-water fish from the Great Lakes and Mississippi River; haddock and other filleted fish from the Atlantic Coast; spiny lobsters from the West Indies and South Africa; and swordfish from Japan.

There are several other unreported items which do not fall into any of the three classifications mentioned above, but which are large in amount and are mentioned here so that the reader may have an idea of the limitations of the tables as well as of their extent. These are:

1. Codfish caught in Alaska waters and landed in a salted state in the San Francisco region during 1936 and 1937. The packing plant [2] which received this fish was destroyed by fire in November, 1937, and deliveries ceased at that time.

2. Sardines delivered to floating reduction plants operating outside the State's jurisdiction (beyond the three-mile limit) during 1936, 1937 and 1938. In December, 1938, these floating plants established shore locations, and since then their receipts of fish have been reported and have been included in the tables of landings.

3. Sardines, anchovies and other small fish caught for live bait. These fish are used immediately, delivered on the fishing grounds to other boats, or put in floating live boxes from which they are taken as needed. As these fish are not brought ashore, they have not been included in the tables of landings and until 1939 no record was made of these catches. In that year bait boat operators began to report their catches to the Division of Fish and Game. They are tabulated separately from the commercial fish landings.

[1] Including mollusks and crustaceans; amphibians and reptiles (2,638 pounds of turtle in 1936; 3,322 pounds in 1939) are excluded.

[2] Union Fish Company plant at Belvedere on San Francisco Bay.

Explanatory Notes

The boundaries of the regions of landing shown in the tables are as follows:

Del Norte and Eureka region: Del Norte, Humboldt and Mendocino counties.

Sacramento region: Sacramento and San Joaquin river systems with the delta areas, including Suisun Bay, and Lake County.

San Francisco region: Sonoma, Marin, San Francisco and San Mateo counties, including San Francisco and San Pablo bays.

Monterey region: Santa Cruz and Monterey counties.

Santa Barbara region: San Luis Obispo, Santa Barbara and Ventura counties.

Los Angeles region: Los Angeles and Orange counties.

San Diego region: San Diego and Imperial counties.

Some fish which might appear to have been taken out of season are included in the tables. Small amounts of fish shown in the tables, as landed during the month following the close of the season, were probably caught at the end of the open season and sold within the ten-day period of grace allowed for their disposal after the close of the season. The instances where large amounts of fish are shown landed out-of-season may be explained as follows:

Salmon landed in the San Francisco region during September, 1938, were legally caught from September 10 to 18, 1938. During that period a court order secured by a fishermen's association restrained the Division of Fish and Game from enforcing the closed season.

Crabs landed in the Del Norte and Eureka region during November, 1938, were caught in the San Francisco region where the season was open.

Crabs landed in the Del Norte and Eureka region during September, 1938, and September, 1939, were caught during the open season and held in live boxes until there was a market demand for them.

The following conversion factors are used when shellfish are reported in numbers rather than in pounds: crab, 2 pounds each; abalone, 50 pounds per dozen; gaper clams, 2 pounds each; Pismo clams, 24 pounds per limit of 15; Washington clams, 6½ pounds per dozen; eastern oysters, 30 pounds per hundred; Japanese oysters, 50 pounds per hundred, 8 pounds per gallon cleaned.

Changes in Form of Tables

"The old order changeth, yielding place to new," is true even of methods of presentation of fisheries statistics. The following tables differ in form from those already published for previous years, although they are the same in content. The changes in form are:

1. Combination in the regional tables of Del Norte with Eureka.

After the closing of the Klamath River to commercial fishermen in 1934, the Del Norte region ceased to represent a distinct geographical fishing area and became more like an extension of the Eureka

region. Because of an expected development of the fisheries at Crescent City, the two regions were tabulated separately during 1934 and 1935. However, as this development has failed to materialize, there now seems to be no reason for the continued separation of the two regions.

2. Separation in the regional tables of fish landed by the boats making the catches (fishing boat landings) from fresh fish brought into the State by other means (shipments).

This has been done because the record of the fishing boat landings is required by law and is quite complete; whereas the record of shipments is furnished voluntarily and is incomplete, except for shipments to canneries which have to be reported for taxation purposes.

3. Combination in the origin table of all fishing areas south of the international boundary (Mexico-United States).

As most of the fish caught south of the boundary can not be allocated to one definite area, the incomplete figures for separate areas were judged to be of little value.

In the 1938 and 1939 tables the result of one important change in method of tabulation can be observed: a decrease in the flatfish landings in the San Francisco region and a corresponding increase in the Del Norte-Eureka and Monterey regions. This has occurred, not because of a sudden shift in the landings of these species from the San Francisco region to the other two, but because of a change in the method of tabulation of the San Francisco trawler fleet catches. This fleet, which is responsible for practically all of the northern California flatfish landings, puts its catches ashore at many landing depots from Crescent City to Monterey, from which points the fish go overland to San Francisco where the business is transacted at the headquarters of the trawler fishing companies. Before January 1, 1938, these landings were all credited to the San Francisco region, their final destination. Beginning with that date, they have been credited to the region in which they are first landed, whether Del Norte and Eureka, San Francisco or Monterey.—*Dorothy Wilson Gay.*

TABLES

ORIGIN OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1936

Species	California	North of State Boundary	South of International Boundary	Japan	Total pounds
Anchovy	195,122				195,122
Barracuda	2,247,858		729,984		2,977,842
Cabezone	18,388				18,388
Cabrilla			221,767		221,767
Carp	108,890				108,890
Catfish	305,027				305,027
Corbina, Mexican			82,118		82,118
Cultus, Pacific	754,491		3,909		758,400
Dolphin	92				92
Eel	86				86
Flounder, Starry	621,186				621,186
Flying Fish	55,627				55,627
Grouper			60,535		60,535
Hake	50,791				50,791
Halibut, California	783,159		806,273		1,589,432
Halibut, Northern	523,932				523,932
Hardhead	106,670				106,670
Herring, Pacific	840,530				840,530
Kingfish	651,968		166		652,134
Mackerel, Horse	4,598,182		1,200		4,599,382
Mackerel, Pacific	98,828,135		1,714,079		100,542,214
Mackerel, Spanish			17,992		17,992
Mullet	10,571				10,571
Perch	251,622		120		251,742
Pike	497				497
Pompano, California	7,524		402		7,926
Rock Bass	324,405		91,740		416,145
Rockfish	4,494,442		109,462		4,603,904
Sablefish	1,021,082		14,448		1,035,530
Salmon	5,022,387				5,022,387
Sand Dab	621,675				621,675
Sardine	955,525,049		651		955,525,700
Sculpin	109,751		746		110,497
Sea-bass, Black	19,854		378,741		398,595
Sea-bass, Short-fin	156				156
Sea-bass, Totuava			1,423,800		1,423,800
Sea-bass, White	564,956		242,823		807,779
Sea-trout, California	59				59
Shad	2,272,989				2,272,989
Shark	457,530		14,331		471,861
Sheepshead	115,986		12,591		128,577
Skate	378,200		3,744		381,944
Smelt	839,197		2,034		841,231
Sole	8,324,861		147		8,325,008
Split-tail	29,342				29,342
Sucker	48,051				48,051
Swordfish, Broadbill	552,018		25,384		577,402
Swordfish, Marlin	16,353		292		16,645
Tomcod	4,153				4,153
Tuna, Albacore	945,595	11,176		1,499,233	2,456,004
Tuna, Bluefin	13,808,578		5,116,305		18,924,883
Tuna, Bonito	2,216,679		4,999,237		7,215,916
Tuna, Mebachi				20,370	20,370
Tuna, Oriental				745,052	745,052
Tuna, Skipjack	8,456,751		18,549,354	2,264,925	29,271,030
Tuna, Yellowfin	767,231		77,585,413	8,628	78,361,272
Turbot	116,275				116,275
Whitebait	197,738				197,738
Whitefish, Ocean	26,839		19,764		46,603
Yellowtail	253,723		9,838,747		10,092,470
Miscellaneous Fish	177,477		940		178,417
Crustacean:					
Crab	2,311,802				2,311,802
Crab, Rock	16,202				16,202
Lobster, Spiny	414,183		921,676		1,335,859
Shrimp	2,242,710		21,759		2,264,469
Mollusk:					
Abalone	3,302,195				3,302,195
Clam, Cockle	22,802				22,802
Clam, Gaper	4,490				4,490
Clam, Pismo	209,805				209,805
Clam, Soft-shell	90,971				90,971
Clam, Washington	35,272				35,272
Mussel	750				750
Octopus	62,452				62,452
Oyster, Eastern	318,912				318,912
Oyster, Japanese	310,683				310,683
Oyster, Native	35,669				35,669
Squid	945,439				945,439
Whelk	250				250
Total pounds	1,128,994,317	11,176	123,012,674	4,538,208	1,256,556,375

REGION OF LANDING OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1936

Species	Del Norte and Eureka Region	Sacramento Region	San Francisco Region	Monterey Region	Santa Barbara Region	Los Angeles Region	San Diego Region	Total pounds
Anchovy	2,020		133,050	30,200		29,852		195,122
Barracuda					47,350	2,283,890	646,602	2,977,842
Cabezone			6,277	11,789	312	10		18,388
Cabrilla						97,396	124,371	221,767
Carp		108,748					142	108,890
Catfish		302,116		2,911				305,027
Corbina, Mexican						81,101	1,017	82,118
Cultus, Pacific	201,052		395,952	155,166	143	402	5,685	758,400
Dolphin						92		92
Eel			86					86
Flounder, Starry	12,539	675	604,286	3,686				621,186
Flying Fish						55,627		55,627
Grouper						20,707	39,828	60,535
Hake			46,741			4,050		50,791
Halibut, California			12,356	44,351	263,590	550,434	718,701	1,589,432
Halibut, Northern	477,975		45,957					523,932
Hardhead		106,670						106,670
Herring, Pacific	5,849		831,608	1,315	225		1,533	840,530
Kingfish			13,460	209,282	699	427,254	1,439	652,134
Mackerel, Horse				30,802		4,506,609	61,971	4,599,382
Mackerel, Pacific	464		44,535	5,418,431	24,316	84,313,743	10,740,725	100,542,214
Mackerel, Spanish						16,117	1,875	17,992
Mullet						6,680	3,891	10,571
Perch	13,353		96,104	44,897	5,069	91,868	451	251,742
Pike		497						497
Pompano, California				298		7,131	497	7,926
Rock Bass				8	16,129	200,542	199,466	416,145
Rockfish	187,424		861,710	2,619,895	400,981	282,130	251,764	4,603,904
Sablefish	543,029		95,948	207,780	656	185,968	2,149	1,035,530
Salmon	3,479,716	949,179	447,548	144,924	270	750		5,022,387
Sand Dab	271	250	590,877	21,778		8,499		621,675
Sardine		164,152,445	119,637,330	402,943,023	1,657	252,935,295	15,855,950	955,525,700
Sculpin				80	216	105,798	4,403	110,497
Sea-bass, Black				25	531	295,611	102,428	398,595
Sea-bass, Short-fin							156	156
Sea-bass, Totuava						1,369,163	54,637	1,423,800
Sea-bass, White			4,442	7,081	61,579	440,972	293,705	807,779
Sea-trout, California	11		7	41				59
Shad		2,248,491	24,487	11				2,272,989
Shark			170,451	3,105	22,211	224,091	52,003	471,861
Sheepshead					19,398	91,726	17,453	128,577
Skate			318,783	21,579	13,722	16,790	11,070	381,944

Smelt	16,666		380,517	135,237	20,933	278,269	9,609	841,231
Sole	7,401		7,812,392	123,733	374,279	7,151	52	8,325,008
Split-tail		29,342						29,342
Sucker		48,051						48,051
Swordfish, Broadbill					44,228	419,238	113,936	577,402
Swordfish, Marlin						14,737	1,908	16,645
Tomcod			4,153					4,153
Tuna, Albacore				42,541	1,780	2,409,280	2,403	2,456,004
Tuna, Bluefin				22	7,147	17,644,884	1,272,830	18,924,883
Tuna, Bonito				442	4,176	4,881,003	2,330,295	7,215,916
Tuna, Mebachi						20,370		20,370
Tuna, Oriental						745,052		745,052
Tuna, Skipjack					7	11,712,547	17,558,476	29,271,030
Tuna, Yellowfin					65	20,309,518	58,051,689	78,361,272
Turbot			105,949	10,274		52		116,275
Whitebait	177,498		13,184	7,056				197,738
Whitefish, Ocean					4,312	17,926	24,365	46,603
Yellowtail					46	2,147,706	7,944,718	10,092,470
Miscellaneous Fish	7,153	117	162,888	154	4,719	2,360	1,026	178,417
Crustacean:								
Crab	229,900		2,075,646	6,256				2,311,802
Crab, Rock					76	16,126		16,202
Lobster, Spiny					141,801	228,321	965,737	1,335,859
Shrimp			2,240,849	1,861		17,270	4,489	2,264,469
Mollusk:								
Abalone			33,667	1,575,675	1,692,143	710		3,302,195
Clam, Cockle	231		1,142			21,429		22,802
Clam, Gaper	1,416		3,074					4,490
Clam, Pismo				20,385	189,420			209,805
Clam, Soft-shell			90,971					90,971
Clam, Washington	32,649		2,623					35,272
Mussel				750				750
Octopus	786		12,305	48,724		618	19	62,452
Oyster, Eastern			318,912					318,912
Oyster, Japanese			301,417	9,266				310,683
Oyster, Native			35,669					35,669
Squid			2,753	933,231		9,455		945,439
Whelk						250		250
Total pounds	5,397,403	167,946,581	137,980,106	414,838,065	3,364,186	409,554,570	117,475,464	1,256,556,375

MONTHLY COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1936

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy	7	95	3,860	25,743	20,100	25,876	58,422	35,289	23,410	2,095	15	210	195,122
Barracuda	44,704	144,275	223,121	868,030	282,264	333,667	398,605	202,745	133,355	164,712	62,551	119,813	2,977,842
Cabezone	1,232	905	2,892	3,540	638	1,941	1,934	3,156	743	228	414	765	18,388
Cabrilla	41,580	31,999	11,776	25,445	76,270	10,487	7,691				2,978	13,541	221,767
Carp	13,597	14,704	19,209	16,099	8,771	8,081	850	100	2,636	2,692	9,839	12,312	108,890
Catfish	9,098	7,165	35,254	37,596	308	752	1,095	663	64,417	61,989	53,028	33,662	305,027
Corbina, Mexican	24,870	15,863	25,256	14,553	559	17						1,000	82,118
Cultus, Pacific	34,268	42,272	90,942	97,542	44,493	66,148	38,080	59,455	80,951	54,235	87,558	62,456	758,400
Dolphin								92					92
Eel			15	25			30	8	4		4		86
Flounder, Starry	35,818	70,630	111,795	62,234	18,861	23,225	73,396	52,987	32,233	28,446	29,255	82,306	621,186
Flying Fish				4,514	6,510	15,198	9,059	12,510	7,111	725			55,627
Grouper	11,788	2,425	21,317		20,403	657	990			1,310	1,058	587	60,535
Hake	950	1,257	2,244	1,990	1,650	4,950	11,900	1,275	4,955	5,175	9,675	4,770	50,791
Halibut, California	133,415	160,157	234,517	133,535	106,814	134,507	150,999	141,560	155,640	57,498	83,769	97,021	1,589,432
Halibut, Northern			6,321	93,244	128,778	214,750	70,027	10,742	70				523,932
Hardhead	14,311	11,525	10,510	10,950	12,775	11,650			2,700	6,250	11,193	14,806	106,670
Herring, Pacific	357,131	300,170	89,445			146	582	54			5,590	87,412	840,530
Kingfish	68,212	49,276	82,873	61,545	49,434	57,792	49,632	35,593	43,889	64,020	46,684	43,184	652,134
Mackerel, Horse	60,521	28,083	6,197	3,601	265,513	258,190	442,521	594,955	836,757	1,010,810	1,999	1,090,235	4,599,382
Mackerel, Pacific	1,101,642	845,424	1,515,160	916,749	9,746,976	4,227,156	19,677,764	12,677,549	16,423,910	23,300,881	2,521,988	7,587,015	100,542,214
Mackerel, Spanish	523	2,051	92							2,065	6,933	6,328	17,992
Mullet		39		1,739	1,972	1,082		2,132	103	1,837	10	1,657	10,571
Perch	23,971	23,201	55,125	63,272	1,207	1,544	14,498	15,021	14,688	9,101	11,514	18,600	251,742
Pike	33	7	164	257	8				3	8	17		497
Pompano, California	2	47	128	161	978	370	917	2,361	1,175	862	789	136	7,926
Rock Bass	8,815	12,883	20,888	18,475	47,033	50,811	69,875	84,289	29,899	21,374	30,632	21,171	416,145
Rockfish	393,265	294,376	498,977	542,166	380,455	418,895	418,350	394,746	308,050	270,711	378,058	305,855	4,603,904
Sablefish	84,816	41,982	64,640	104,191	122,391	201,092	80,789	125,311	82,843	67,893	50,026	9,556	1,035,530
Salmon	7,698	16,362	52,381	221,000	682,648	445,642	1,342,025	1,716,438	538,093		20	80	5,022,387
Sand Dab	51,378	44,685	71,684	80,042	47,626	65,343	64,772	47,728	35,777	25,361	50,186	37,093	621,675
Sardine	178,888,443	81,334,212	79,333,420	446,646	718,718	416,730	495,147	21,810,031	146,764,817	130,956,765	140,169,295	174,191,476	955,525,700
Sculpin	5,286	2,453	7,782	10,184	10,606	16,291	9,886	8,837	10,011	10,819	9,905	8,437	110,497
Sea-bass, Black	33,116	41,418	21,530	17,695	57,189	32,789	18,696	26,823	48,818	63,698	18,639	18,184	398,595
Sea-bass, Short-fin	46			16	60	29				5			156
Sea-bass, Totuava	340,755	222,658	370,413	46,213	113,070	36,902					124,436	169,353	1,423,800
Sea-bass, White	20,231	23,863	68,170	331,645	6,409	22,226	58,923	55,087	108,919	33,277	32,289	46,740	807,779
Sea-trout, California	11		41							7			59
Shad		664	159,958	1,153,982	958,385								2,272,989
Shark	47,620	44,702	67,387	33,029	37,177	44,377	23,469	24,924	30,206	36,351	43,585	39,034	471,861
Sheepshead	22,287	12,510	14,887	3,844	6,202	894	939	1,028	6,360	16,871	21,416	21,339	128,577

Skate	54,069	44,480	57,166	21,463	28,580	27,315	21,746	20,322	16,462	25,679	32,024	32,638	381,944
Smelt	65,798	73,021	91,916	70,365	59,406	81,082	71,726	69,061	71,101	73,873	66,514	47,368	841,231
Sole	745,406	735,487	862,569	883,745	649,730	703,187	653,319	813,157	688,310	444,485	636,131	509,482	8,325,008
Split-tail	4,850	5,416	4,922	4,384	3,474	2,550			400		1,016	2,330	29,342
Sucker	10,424	9,272	10,391	6,664	5,325	5,975							48,051
Swordfish, Broadbill					375	75,347	223,568	205,280	67,942	4,738	152		577,402
Swordfish, Marlin							1,138	9,216	6,126	165			16,645
Tomcod	190	500				55	1,553	1,050	42			763	4,153
Tuna, Albacore	112,853	155,502	378,733	126,144	166,410	67	218,263	505,086	417,061	359,031	15,661	1,193	2,456,004
Tuna, Bluefin		54,183	152,617	40,985	1,278,069	8,711,229	4,160,500	2,367,617	1,871,797	286,949	937		18,924,883
Tuna, Bonito	791,333	303,432	198,925	17,724	485,253	105,405	807,386	2,383,142	1,379,027	198,099	256,080	290,110	7,215,916
Tuna, Mebachi										20,370			20,370
Tuna, Oriental	90,588							73,593	521,481	59,390			745,052
Tuna, Skipjack	236,752	94,918	925,827	1,061,536	2,110,551	1,205,136	485,209	5,253,528	7,527,176	6,673,999	2,764,300	932,098	29,271,030
Tuna, Yellowfin	4,595,690	2,466,380	7,659,976	5,474,214	11,098,519	7,285,759	9,273,821	5,161,397	5,979,984	7,456,345	4,045,515	7,863,672	78,361,272
Turbot	8,963	7,889	26,447	9,116	5,343	8,637	18,352	11,237	2,660	5,393	6,717	5,521	116,275
Whitebait	4,151	13,556	36,233	40,381	36,533	38,872	22,275	5,648	89				197,738
Whitefish, Ocean	9,700	5,393	9,398	3,563	1,518	1,081	7	862	1,295	2,468	6,247	5,071	46,603
Yellowtail	307,027	252,956	166,820	685,218	1,067,860	437,461	1,484,487	2,908,377	745,441	389,960	487,199	1,159,664	10,092,470
Miscellaneous Fish	12,904	11,486	16,478	17,362	17,789	15,294	14,249	15,719	13,365	9,232	18,426	16,113	178,417
Crustacean:													
Crab	476,352	374,054	204,854	202,984	162,906	89,572	161,406	53,106			408,516	178,052	2,311,802
Crab, Rock	2,033	1,912	2,597	3,781	1,327	510	842	1,029	543	200	679	749	16,202
Lobster, Spiny	388,685	245,838	156,504							155,087	195,441	194,304	1,335,859
Shrimp	44,406	50,886	74,470	82,836	112,572	257,896	552,042	517,339	256,238	158,252	91,993	65,539	2,264,469
Mollusk:													
Abalone	30,000		162,000	473,150	351,553	451,377	271,558	558,456	398,151	149,900	236,714	219,336	3,302,195
Clam, Cockle	1,630	1,743	1,645	1,936	1,881	1,791	1,940	2,028	1,862	1,906	1,991	2,449	22,802
Clam, Gaper	1,154	182	596	404	416	326	504	470	156	90	98	94	4,490
Clam, Pismo	16,020	12,626	14,908	13,656	14,367	18,886	23,858	24,453	21,005	18,888	15,888	15,250	209,805
Clam, Soft-shell	10,352	9,172	9,963	9,524	9,363	11,337	6,600	6,329	6,280	3,945	4,101	4,005	90,971
Clam, Washington	4,385	3,383	3,672	3,805	358	341	349	343	5,385	4,899	5,014	3,338	35,272
Mussel	300				300							150	750
Octopus	2,427	5,421	11,912	13,196	4,488	4,857	4,900	7,144	3,452	1,115	2,251	1,289	62,452
Oyster, Eastern	31,332	29,295	28,107	20,183	18,487	15,895	10,254	14,830	30,272	33,363	40,522	46,372	318,912
Oyster, Japanese	20,952	9,114	18,100	11,315	9,888	30,007	30,430	25,717	40,524	54,080	35,001	25,555	310,683
Oyster, Native	243	3,140	8,240	6,878	2,831	3,843	1,794	1,636		953	2,729	3,382	35,669
Squid	23,079	33,905	1,740	43,711	538,473	146,459	40,956	8,725	1,075	21,936	36,685	48,695	945,439
Whelk	250												250
Total pounds	189,985,738	88,858,880	94,598,097	14,801,715	32,227,196	26,887,756	42,156,895	59,169,386	185,867,245	172,892,861	153,289,890	195,820,716	1,256,556,375

COMMERCIAL FISH LANDINGS IN DEL NORTE AND EUREKA REGION DURING 1936

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy										2,020			2,020
Cultus, Pacific	3,157	18,527	42,234	37,368	8,657	14,521	7,520	12,308	4,789	19,599	21,042	11,330	201,052
Flounder, Starry	4,547	4,933	2,774		71				69		5	140	12,539
Halibut, Northern			4,068	77,473	117,396	203,321	65,519	10,198					477,975
Herring, Pacific	3,524	2,250										75	5,849
Mackerel, Pacific								464					464
Perch	1,765	3,098	7,216	1,080	9							185	13,353
Rockfish	6,898	15,410	14,313	20,859	20,570	19,029	9,897	9,819	12,476	22,306	26,064	9,783	187,424
Sablefish	24,698	5,904	19,692	28,899	81,598	163,414	57,439	82,730	49,016	26,267	3,372		543,029
Salmon				111,204	422,619	193,950	1,206,377	1,403,807	141,759				3,479,716
Sand Dab	36	235											271
Sea-trout, California	11												11
Smelt	3,828	1,824	2,159	962	657	45	861	390	2,167	360	341	3,072	16,666
Sole	1,358	2,388	1,081	8	86	65	91	708	664	941	11		7,401
Whitebait	3,382	13,051	33,677	37,163	30,714	35,951	18,055	5,505					177,498
Miscellaneous Fish	1,451	1,250	916	289	136	441	331	961	46	1,161	46	134	7,153
Crustacean:													
Crab	20,528	20,114	20,788	30,214	32,032	31,364	34,304	33,960				6,596	229,900
Mollusk:													
Clam, Cockle	59	95	23	54									231
Clam, Gaper	1,032		240	144									1,416
Clam, Washington	4,235	3,272	3,470	3,635					5,238	4,752	4,875	3,172	32,649
Octopus	12	338	34	65	75						126	136	786
Total pounds	80,521	92,689	152,685	349,408	714,620	662,101	1,400,394	1,560,850	216,224	77,406	55,882	34,623	5,397,403

COMMERCIAL FISH LANDINGS IN SACRAMENTO REGION DURING 1936

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Carp	13,597	14,704	19,209	15,957	8,771	8,081	850	100	2,636	2,692	9,839	12,312	108,748
Catfish	9,098	6,803	33,150	37,151	308	752	1,095	663	64,417	61,989	53,028	33,662	302,116
Flounder, Starry	60	100	365	150									675
Hardhead	14,311	11,525	10,510	10,950	12,775	11,650			2,700	6,250	11,193	14,806	106,670
Pike	33	7	164	257	8				3	8	17		497
Salmon	7,698	16,362	33,732	98,816	217,943	43,184		153,201	378,143		20	80	949,179
Sand Dab				250									250
Sardine	21,380,700	508,450	16,045					1,022,500	34,363,450	38,313,550	33,114,000	35,433,750	164,152,445
Shad		664	159,947	1,138,772	949,108								2,248,491
Split-tail	4,850	5,416	4,922	4,384	3,474	2,550			400		1,016	2,330	29,342
Sucker	10,424	9,272	10,391	6,664	5,325	5,975							48,051
Miscellaneous Fish			27		80				10				117
Total pounds	21,440,771	573,303	288,462	1,313,351	1,197,792	72,192	1,945	1,176,464	34,811,759	38,384,489	33,189,113	35,496,940	167,946,581

COMMERCIAL FISH LANDINGS IN SAN FRANCISCO REGION DURING 1936

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy				13,500	12,500	16,600	43,500	24,300	22,650				133,050
Cabezone	100	400	428	1,114	300	1,135	1,300	1,050	150		100	200	6,277
Cultus, Pacific	22,408	15,241	35,801	36,424	25,266	41,052	21,874	32,366	64,589	25,912	46,930	28,089	395,952
Eel			15	25			30	8	4		4		86
Flounder, Starry	30,486	65,103	108,108	61,737	18,539	22,854	73,205	52,709	32,106	28,286	29,097	82,056	604,286
Hake	861	805	265	460	1,650	4,950	11,900	1,275	4,955	5,175	9,675	4,770	46,741
Halibut, California	1,885	892	961	482	102	2,004	1,167	1,754	431		1,753	925	12,356
Halibut, Northern			2,253	15,771	11,382	11,429	4,508	544	70				45,957
Herring, Pacific	353,168	297,740	89,300								5,225	86,175	831,608
Kingfish			735	1,294	2,827	4,778	598	1,138	1,915		175		13,460
Mackerel, Pacific								5,428	21,783	8,332	7,357	1,635	44,535
Perch	5,887	6,134	19,195	21,299			4,217	9,875	4,523	5,399	7,594	11,981	96,104
Rockfish	84,166	69,237	112,299	61,457	54,687	82,744	53,436	42,067	55,101	63,843	109,582	73,091	861,710
Sablefish	3,085	2,365	2,805	340	22,215	31,175	7,830	22,095	3,255		100	683	95,948
Salmon					32,274	129,285	109,118	159,430	17,441				447,548
Sand Dab	50,017	42,823	66,322	74,203	43,394	63,904	61,424	47,181	34,020	23,074	48,151	36,364	590,877
Sardine	7,529,676	69,575	188,450	172,300	371,600	354,400	444,900	1,655,400	17,724,500	28,690,129	31,429,300	31,007,100	119,637,330
Sea-bass, White								31	4,051	360			4,442
Sea-trout, California										7			7
Shad				15,210	9,277								24,487
Shark	31,838	22,958	35,775	3,040	100	2,805	4,290	3,659	5,440	7,956	20,559	32,031	170,451
Skate	45,425	34,568	44,310	14,095	24,830	21,900	19,610	19,218	15,035	21,255	29,209	29,328	318,783
Smelt	14,231	50,661	57,775	39,857	27,395	32,870	37,464	24,726	29,097	21,958	22,772	21,711	380,517
Sole	710,134	696,065	751,185	779,622	610,065	676,722	628,395	792,739	667,022	393,454	610,227	496,762	7,812,392
Tomcod	190	500				55	1,553	1,050	42			763	4,153
Turbot	8,912	7,020	22,391	7,021	4,664	8,637	18,352	11,237	2,530	3,785	5,879	5,521	105,949
Whitebait	769	486	1,814	597	2,733	2,420	4,133	143	89				13,184
Miscellaneous Fish	11,403	9,911	15,116	16,330	17,135	14,386	13,511	12,811	12,960	7,666	16,282	15,377	162,888
Crustacean:													
Crab	455,538	353,532	183,298	172,716	130,820	58,172	127,084	19,146			404,042	171,298	2,075,646
Shrimp	43,826	50,764	74,257	81,076	107,695	254,787	552,042	517,339	255,937	153,763	84,267	65,096	2,240,849
Mollusk:													
Abalone			1,250	2,350	900	26,567	2,600						33,667
Clam, Cockle	98	81	187	67	187	145	147	122	26	29	36	17	1,142
Clam, Gaper	122	182	356	260	416	326	504	470	156	90	98	94	3,074
Clam, Soft-shell	10,352	9,172	9,963	9,524	9,363	11,337	6,600	6,329	6,280	3,945	4,101	4,005	90,971
Clam, Washington	150	111	202	170	358	341	349	343	147	147	139	166	2,623
Octopus	561	366	2,416	4,614	1,349	1,541	497	488	108	18	226	121	12,305
Oyster, Eastern	31,332	29,295	28,107	20,183	18,487	15,895	10,254	14,830	30,272	33,363	40,522	46,372	318,912
Oyster, Japanese	20,952	8,768	16,150	9,890	8,538	28,057	29,350	25,027	40,319	53,930	35,001	25,435	301,417
Oyster, Native	243	3,140	8,240	6,878	2,831	3,843	1,794	1,636		953	2,729	3,382	35,669
Squid			210						1,075		1,118	350	2,753
Total pounds	9,467,815	1,847,895	1,879,939	1,643,906	1,573,879	1,927,116	2,297,536	3,507,964	19,058,079	29,552,829	32,972,250	32,250,898	137,980,106

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy			580	4,670	2,005	485	11,670	10,190	600				30,200
Cabezone	1,132	428	2,464	2,426	338	806	520	1,992	576	228	314	565	11,789
Catfish		362	2,104	445									2,911
Cultus, Pacific	7,000	8,504	12,907	23,489	10,563	8,535	8,624	14,781	11,573	8,449	17,704	23,037	155,166
Flounder, Starry	725	494	548	347	251	371	191	278	58	160	153	110	3,686
Halibut, California	8,916	9,667	13,049	2,916	477	1,288	3,460	2,330	115	1,053	876	204	44,351
Herring, Pacific	350	180	145			140	500						1,315
Kingfish	18,645	3,041	33,164	17,263	16,779	19,758	21,388	5,943	14,942	23,691	16,861	17,807	209,282
Mackerel, Horse			753	2,686	1,794	975	2,406	11,697	5,243	4,679	561	8	30,802
Mackerel, Pacific	102,604	69,799	83,187	24,151	28,448	46,380	842,566	3,401,469	496,865	143,932	92,364	86,666	5,418,431
Perch		179	14,257	23,966			3,915	482	484	1,398	216		44,897
Pompano, California			81	69	61	73	14						298
Rock Bass							8						8
Rockfish	171,994	131,598	230,102	358,211	225,182	241,980	293,886	285,527	183,332	140,254	178,326	179,503	2,619,895
Sablefish	41,266	11,874	15,027	24,296	9,813	2,695	13,534	10,376	22,423	14,937	35,456	6,083	207,780
Salmon			18,649	10,980	9,812	79,223	26,260						144,924
Sand Dab	200	490	3,699	4,500	3,652	1,205	3,035	380	1,163	1,704	1,452	298	21,778
Sardine	70,205,447	7,828,395	120,839	165,150	115,065	58,310	46,865	19,127,882	94,653,145	63,929,795	75,604,306	71,087,824	402,943,023
Sculpin									80				80
Sea-bass, Black				25									25
Sea-bass, White	114	55	173	167	12				6,249	42	207	62	7,081
Sea-trout, California			41										41
Shad			11										11
Shark			945						111	445	1,093	511	3,105
Skate	1,304	4,271	6,775	2,145	807	949	1,205	705	518	2,189	653	58	21,579
Smelt	7,990	3,739	2,635	3,083	6,948	23,879	15,193	18,923	20,791	21,273	6,653	4,130	135,237
Sole	1,620	4,401	46,084	36,168	7,854	5,032	6,164	5,125	2,929	4,594	3,512	250	123,733
Tuna, Albacore									19,505	23,036			42,541
Tuna, Bluefin									22				22
Tuna, Bonito									17		329	96	442
Turbot	32	869	4,056	2,092	679				100	1,608	838		10,274
Whitebait		19	742	2,621	3,086	501	87						7,056
Miscellaneous Fish			30	90					34				154
Crustacean:													
Crab	286	408	768	54	54	36	18				4,474	158	6,256
Shrimp	580	122	119	240					301		381	118	1,861
Mollusk:													
Abalone	4,450		95,875	334,300	213,300	173,000	66,550	300,125	238,000	17,950	76,275	55,850	1,575,675
Clam, Pismo	3,021	2,374	2,354	1,176					2,551	3,374	2,851	2,684	20,385
Mussel	300				300							150	750
Octopus	1,853	4,713	9,460	8,470	3,064	3,316	4,403	6,622	3,325	852	1,769	877	48,724
Oyster, Japanese		346	1,950	1,425	1,350	1,950	1,080	690	205	150		120	9,266
Squid	17,084	33,905	1,239	42,556	538,305	144,805	40,930	8,725		21,880	35,567	48,235	933,231
Total pounds	70,596,913	8,120,233	724,812	1,100,177	1,199,999	815,692	1,414,472	23,214,242	95,685,257	64,367,673	76,083,191	71,515,404	414,838,065

COMMERCIAL FISH LANDINGS IN SANTA BARBARA REGION DURING 1936

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda			4,110		369	3,807	6,780	9,637	15,861	6,147	619	20	47,350
Cabezone		77					114	114	7				312
Cultus, Pacific				16		65	62						143
Halibut, California	17,309	11,666	13,446	9,732	19,619	21,713	31,782	31,699	28,476	24,243	30,051	23,854	263,590
Herring, Pacific	89						82	54					225
Kingfish	314		26				90			227	42		699
Mackerel, Pacific	4,798	670	1,118			181	1,073	1,741	3,677	6,901	2,372	1,785	24,316
Perch	45	208	147	1,579		120	304	1,328	1,310		8	20	5,069
Rock Bass	707	1,088	526	467	1,913	1,727	4,826	3,025	455	495	495	405	16,129
Rockfish	61,128	33,828	57,421	37,279	35,966	31,253	29,980	37,144	29,050	16,128	15,628	16,176	400,981
Sablefish	63		54			19	327	190	3				656
Salmon							270						270
Sardine	161		50				20	326	1,040	60			1,657
Sculpin				114	83			19					216
Sea-bass, Black	36			36		250					13	196	531
Sea-bass, White	1,424	451	642	13,584	6	42	200	2,011	15,146	10,060	13,291	4,722	61,579
Shark	875	3,869	2,939	1,652	2,135	2,254	1,451	1,650	1,372	1,551	2,224	239	22,211
Sheepshead	6,456	2,175	1,115						17	2,887	3,883	2,865	19,398
Skate	1,789	3,000	813	1,460	1,635	2,140	410	225			765	1,485	13,722
Smelt	483	1,010	1,450	4,203	4,356	2,794	2,182	2,315	1,454	400	134	152	20,933
Sole	32,070	32,069	62,646	66,525	30,275	20,632	18,487	14,293	17,522	45,265	22,145	12,350	374,279
Swordfish, Broadbill							5,324	30,053	8,510	341			44,228
Tuna, Albacore								1,419	173	188			1,780
Tuna, Bluefin								3,067	575	3,505			7,147
Tuna, Bonito	178									1,748	1,247	1,003	4,176
Tuna, Skipjack										7			7
Tuna, Yellowfin									35	30			65
Whitefish, Ocean	3,438	382		60						118	314		4,312
Yellowtail										46			46
Miscellaneous Fish		231	58	480	75	36	4	1,633	79		1,807	316	4,719
Crustacean:													
Crab, Rock				39	37								76
Lobster, Spiny	15,686	10,728	7,394							48,188	34,502	25,303	141,801
Mollusk:													
Abalone	25,550		64,800	136,300	137,278	251,810	202,358	258,331	160,051	131,925	160,264	163,476	1,692,143
Clam, Pismo	12,999	10,252	12,554	12,480	14,367	18,886	23,858	24,453	18,454	15,514	13,037	12,566	189,420
Total pounds	185,598	111,704	231,283	286,032	248,114	357,729	329,984	424,727	303,313	315,928	302,841	266,933	3,364,186

COMMERCIAL FISH LANDINGS IN LOS ANGELES REGION DURING 1936

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy	7	95	3,280	7,573	5,595	8,791	3,252	799	160	75	15	210	29,852
Barracuda	13,433	23,825	112,870	794,932	231,784	268,050	280,862	88,134	76,527	88,005	143		1,978,565
Cabezone									10				10
Cultus, Pacific	84				7						36		127
Dolphin								92					92
Flying Fish				4,514	6,510	15,198	9,059	12,510	7,111	725			55,627
Hake	89	452	1,979	1,530									4,050
Halibut, California	36,760	44,440	76,481	35,265	49,463	51,639	14,907	18,801	12,882	6,831	7,713	12,365	367,547
Kingfish	49,253	46,030	48,857	42,936	29,766	33,229	27,556	28,512	26,799	39,525	29,469	25,322	427,254
Mackerel, Horse	60,521	26,238	5,444	915	204,793	257,215	440,115	582,058	831,514	1,006,131	1,438	1,090,227	4,506,609
Mackerel, Pacific	314,756	244,922	1,008,230	300,214	7,912,222	3,818,765	16,427,866	8,306,118	15,801,814	22,828,771	1,056,944	6,293,121	84,313,743
Mullet				882		382		1,912		1,837	10	1,657	6,680
Perch	16,019	13,408	14,288	15,348	1,198	1,424	6,062	3,336	8,371	2,304	3,696	6,414	91,868
Pompano, California	2	32	47	92	917	297	840	1,957	1,175	862	774	136	7,131
Rock Bass	2,724	5,312	7,858	11,022	28,745	29,978	35,319	25,983	10,927	8,493	15,332	9,196	190,889
Rockfish	41,133	23,608	44,955	35,537	27,775	12,855	10,866	8,072	8,677	13,083	22,737	21,435	270,733
Sablefish	15,704	21,634	25,328	50,446	8,765	3,789	1,659	9,920	8,146	12,785	11,098	2,790	172,064
Salmon									750				750
Sand Dab	1,125	1,137	1,663	1,089	580	234	313	167	594	583	583	431	8,499
Sardine	74,303,553	65,994,335	75,879,210	6,932	10,633	4,020	3,038	3,765	22,587	22,835	21,585	36,662,802	252,935,295
Sculpin	4,406	1,828	7,390	9,581	10,428	15,523	9,886	8,818	9,835	10,440	9,362	8,301	105,798
Sea-bass, Black	1,190	341	1,449	1,626	2,712	495	1,567	941	2,397	579	155	27	13,479
Sea-bass, White	4,870	4,817	47,592	305,305	1,958	2,972	1,560	2,172	16,423	2,413	2,648	29,882	422,612
Shark	10,996	8,621	20,272	24,435	34,652	29,848	15,491	19,605	22,981	16,269	9,346	3,363	215,879
Sheepshead	14,320	7,064	11,466	3,438	5,552	187	939	685	5,251	11,876	14,239	14,741	89,758
Skate	1,821	2,252	2,274	1,343	1,245	1,135	106	174	660	875	1,397	1,767	15,049
Smelt	39,218	15,267	26,281	21,478	18,456	19,809	14,528	22,598	17,543	29,277	35,751	18,063	278,269
Sole	224	469	1,500	1,406	1,450	731	182	292	173	221	236	120	7,004
Swordfish, Broadbill					213	68,991	148,740	139,156	56,374	3,932	152		417,558
Swordfish, Marlin							732	8,117	5,723	165			14,737
Tuna, Albacore							217,090	398,992	142,111	125,017	14,468	1,193	898,871
Tuna, Bluefin			12		419,945	5,963,489	3,360,036	1,868,480	1,752,598	258,921	73		13,623,554
Tuna, Bonito	411,397	105,801	13,575	2,886	317,633	93,685	171,319	5,318	3,551	4,671	18,965	127,471	1,276,272
Tuna, Skipjack								1,819,510	1,974,361	855,061	485,104	298	5,134,334
Tuna, Yellowfin		126					196,131	311,690	73,429	16,728	41,044	1,043	640,191
Turbot	19			3					30				52
Whitefish, Ocean	2,164	413	2,222	1,377	1,218	756	7	107	148	568	1,675	1,545	12,200
Yellowtail	268	2,255	11,897	60,833	75,219	12,589	1,238	3,056	16,501	50	33	75	184,014
Miscellaneous Fish	50	94	331	182	63		163	189	236	405	291	212	2,216

COMMERCIAL FISH LANDINGS IN LOS ANGELES REGION DURING 1936—Continued

Fishing Boat Landings from California Waters—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Crustacean:													
Crab, Rock	2,033	1,912	2,597	3,742	1,290	510	842	1,029	543	200	679	749	16,126
Lobster, Spiny	10,718	10,636	6,212	----------	----------	----------	----------	----------	----------	71,236	56,809	36,713	192,324
Mollusk:													
Abalone	----------	----------	75	200	75	----------	50	----------	100	25	175	10	710
Clam, Cockle	1,473	1,567	1,435	1,815	1,694	1,646	1,793	1,906	1,836	1,877	1,955	2,432	21,429
Octopus	1	4	2	47	----------	----------	----------	34	----------	245	130	155	618
Squid	5,995	----------	291	1,155	168	1,654	26	----------	----------	56	----------	110	9,455
Whelk	250	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	250
Total pounds	75,366,576	66,608,935	77,387,363	1,750,079	9,412,724	10,719,886	21,404,140	13,705,005	20,920,848	25,443,952	1,866,260	44,374,376	368,960,144

Fishing Boat Landings from Waters South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	16,939	111,613	44,691	262	383	417	1,330		6,426	22,298	6,263	94,703	305,325
Cabrilla	32,966	4,458		38	31,726	127	2,125				552	770	72,762
Cultus, Pacific										275			275
Grouper	8,361	265			8,308	415	990			1,310	1,058		20,707
Halibut, California	27,787	34,983	73,077	22,725	14,583					1,341		8,391	182,887
Mackerel, Spanish	523	2,051	92							2,065	6,483	4,903	16,117
Rock Bass	554	1,202	1,143	42	2,185	1,009			435	1,072	1,183	828	9,653
Rockfish	91	3,265	150			585				1,354	5,952		11,397
Sablefish										13,904			13,904
Sea-bass, Black	20,140	26,444	11,530	11,127	39,765	25,280	10,344	22,396	44,430	47,019	14,192	8,561	281,228
Sea-bass, White	109	801	4,984	2,008	120	154		788		6,233	983	2,180	18,360
Shark	829	1,900	1,923	1,773	240					175	427	945	8,212
Sheepshead		180			495	75				25	123	1,070	1,968
Skate	298	55	388	1,000									1,741
Sole		95	52										147
Swordfish, Broadbill					162		1,518						1,680
Tuna, Bluefin		54,163	130,138	40,985	752,353	2,587,839	305,352	99,111	50,213	312	864		4,021,330
Tuna, Bonito	2,307	5,068	4,049			292	208,329	2,036,694	1,279,349	50,709	14,655	3,279	3,604,731
Tuna, Skipjack	17,796		330,971	89	1,417,991	693,871	63,770	338,724	316,811	885,896	220,813	26,556	4,313,288
Tuna, Yellowfin	951,618		1,301,429	974,367	4,183,018	3,689,836	1,772,246	1,122,168	1,649,284	1,945,021	785,426	1,286,286	19,660,699
Whitefish, Ocean		1,422	1,342	571	170	285				145	1,034	757	5,726
Yellowtail	44,889	61,835	25,631	9,415	47,113	159,267	184,831	925,394	332,308	56,795	46,215	69,999	1,963,692
Miscellaneous Fish					70							74	144
Crustacean:													
Lobster, Spiny	9,764	953									15,044	10,236	35,997
Total pounds	1,134,971	310,753	1,931,590	1,064,402	6,498,682	7,159,452	2,550,835	4,545,275	3,679,256	3,035,949	1,121,267	1,519,538	34,551,970

Shipments from North of State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore										11,176			11,176
Total pounds										11,176			11,176

COMMERCIAL FISH LANDINGS IN LOS ANGELES REGION DURING 1936—Continued

Shipments from South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cabrilla	1,149	185	183	15,430	2,559	280					2,426	2,422	24,634
Corbina, Mexican	24,870	15,863	25,256	14,553	559								81,101
Sea-bass, Black	779											125	904
Sea-bass, Totuava	340,755	216,761	363,631	46,213	113,070	36,902					108,214	143,617	1,369,163
Crustacean:													
Shrimp			94	1,520	4,877	3,109					7,345	325	17,270
Total pounds	367,553	232,809	389,164	77,716	121,065	40,291					117,985	146,489	1,493,072

Shipments from Japan

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore	112,853	155,502	378,733	126,144	166,410			103,714	255,070	199,614	1,193		1,499,233
Tuna, Mebachi										20,370			20,370
Tuna, Oriental	90,588							73,593	521,481	59,390			745,052
Tuna, Skipjack	56,253		491,296	135,316					537,013	1,045,047			2,264,925
Tuna, Yellowfin									8,628				8,628
Total pounds	259,694	155,502	870,029	261,460	166,410			177,307	1,322,192	1,324,421	1,193		4,538,208
Grand total	77,128,794	67,307,999	80,578,146	3,153,657	16,198,881	17,919,629	23,954,975	18,427,587	25,922,296	29,815,498	3,106,705	46,040,403	409,554,570

COMMERCIAL FISH LANDINGS IN SAN DIEGO REGION DURING 1936

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	483	2,898	54,333	65,262	33,576	5,716	30,049	17,350	8,602	2,444	1,230		221,943
Carp				142									142
Cultus, Pacific				33		1,975					43		2,051
Halibut, California	5,621	4,674	25,835	14,602	478	13,421	167	231	71	1,430	22,225	6,560	95,315
Herring, Pacific						6					365	1,162	1,533
Kingfish		205	117	26	62	27			67	577	137	55	1,273
Mackerel, Horse		1,845			58,926								60,771
Mackerel, Pacific	679,264	528,989	422,220	591,431	1,796,527	262,537	1,059,770	708,149	98,835	312,945	1,362,488	1,203,491	9,026,646
Mullet		39		857	1,972	700		220	103				3,891
Perch	255	54	22										331
Pompano, California		15						65			15		95
Rock Bass	2,386	3,353	5,183	3,772	2,488	1,741	10,754	48,083	17,766	8,360	7,201	6,292	117,379
Rockfish	6,988	1,265	29,727	19,549	13,994	29,903	20,285	4,177	6,973	5,430	9,774	5,634	153,699
Sablefish			1,605										1,605
Sardine	5,468,906	6,933,457	3,128,826	102,199	221,420				95	396			15,855,299
Sculpin	880		392	412	51	768			96	379	543	136	3,657
Sea-bass, Black	748	325	1,364			1,043	159			1,199	365	616	5,819
Sea-bass, Short-fin	46			16	60	29				5			156
Sea-bass, White	13,539	17,479	13,667	8,970	184	4,432	1,779	150	3,151	4,934	46	911	69,242
Shark	2,735	7,072	3,894	1,836	50	8,110	1,142	10	152	9,002	9,936	1,945	45,884
Sheepshead	1,016	19	690	10		517			397	1,570	1,477	1,134	6,830
Skate	3,432	309	2,606	1,420		1,191	25		84				9,067
Smelt	48	275	1,495	782	1,594	1,668	1,232			276		205	7,575
Sole			21	16		5				10			52
Swordfish, Broadbill						3,834	66,030	17,229	2,898	241			90,232
Swordfish, Marlin							406	807	403				1,616
Tuna, Albacore						67	1,173	961	202				2,403
Tuna, Bluefin		20	87		111	62,962	58,649	36,345	1,292	18,389			177,855
Tuna, Bonito	350,953	149,852	56,205	6,135	17,871	4,896	106,325	53,719	32,251	26,181	42,881	88,520	935,789
Tuna, Skipjack								1,418,148	1,717,234	184,815	2,200	13	3,322,410
Tuna, Yellowfin			13				44	5,650	93,269	27,461	495	43	126,975
Whitefish, Ocean	2,891	105	3,025					205	245	663	869	2,324	10,327
Yellowtail	325	267	2,603	2,560	12,053	5,965	8,543	11,021	16,750	9,390	186		69,663
Miscellaneous Fish					230								230
Crustacean:													
Lobster, Spiny	1,559	431	11							32,204	29,097	16,756	80,058
Mollusk:													
Octopus									19				19
Total pounds	6,542,075	7,652,948	3,753,941	820,030	2,161,647	411,513	1,366,532	2,322,520	2,000,955	648,301	1,491,573	1,335,797	30,507,832

COMMERCIAL FISH LANDINGS IN SAN DIEGO REGION DURING 1936—Continued

Fishing Boat Landings from Waters South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	13,849	5,939	7,117	7,574	16,152	55,677	79,584	87,624	25,939	45,818	54,296	25,090	424,659
Cabrilla	7,465	27,356	11,593	9,977	41,985	10,080	5,566					10,039	124,061
Corbina, Mexican						17							17
Cultus, Pacific	1,619			212							1,803		3,634
Grouper	3,427	2,160	21,317		12,035	242						587	39,828
Halibut, California	35,137	53,835	31,668	47,813	22,092	44,442	99,516	86,745	113,665	22,600	21,151	44,722	623,386
Kingfish									166				166
Mackerel, Horse								1,200					1,200
Mackerel, Pacific	220	1,044	405	953	9,779	99,293	1,346,489	254,180	936		463	317	1,714,079
Mackerel, Spanish		120										1,425	1,425
Perch													120
Pompano, California							63	339					402
Rock Bass	2,444	1,928	6,178	3,172	11,702	16,356	18,968	7,198	316	2,954	6,421	4,450	82,087
Rockfish	20,867	16,165	10,010	9,274	2,281	546		7,940	12,441	8,313	9,995	233	98,065
Sablefish		205	129	210									544
Sardine				65			324	158			104		651
Sculpin		625		77	44								746
Sea-bass, Black	10,223	14,308	7,187	4,881	14,712	5,721	6,626	3,486	1,991	14,901	3,914	8,659	96,609
Sea-bass, White	175	260	1,112	1,611	4,129	14,626	55,384	49,935	63,899	9,235	15,114	8,983	224,463
Shark	347	232	1,639	293		1,360	1,095		150	953			6,119
Sheepshead	495	3,072	1,616	396	155	115		343	695	513	1,694	1,529	10,623
Skate		25			63		390		165	1,360			2,003
Smelt		245	121			17	266	109	49	329	863	35	2,034
Swordfish, Broadbill						2,522	1,956	18,842	160	224			23,704
Swordfish, Marlin								292					292
Tuna, Bluefin			22,380		105,660	96,939	436,463	360,614	67,097	5,822			1,094,975
Tuna, Bonito	26,498	42,711	125,096	8,703	149,749	6,532	321,413	287,411	63,859	114,790	178,003	69,741	1,394,506
Tuna, Skipjack	162,703	94,918	103,560	926,131	692,560	511,265	421,439	1,677,146	2,981,757	3,703,173	2,056,183	905,231	14,236,066
Tuna, Yellowfin	3,644,072	2,466,254	6,358,534	4,499,847	6,915,501	3,595,923	7,305,400	3,721,889	4,155,339	5,467,105	3,218,550	6,576,300	57,924,714
Whitefish, Ocean	1,207	3,071	2,809	1,555	130	40		550	902	974	2,355	445	14,038
Yellowtail	261,545	188,599	126,689	612,410	933,475	259,640	1,289,875	1,968,906	379,836	323,725	440,765	1,089,590	7,875,055
Miscellaneous Fish						431	240	125					796
Crustacean:													
Lobster, Spiny	350,958	223,090	142,887							3,459	59,989	105,296	885,679
Total pounds	4,543,251	3,146,212	6,982,047	6,135,154	8,932,264	4,721,784	11,391,057	8,535,032	7,869,362	9,726,248	6,071,663	8,852,672	86,906,746

Shipments from South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cabrilla												310	310
Corbina, Mexican												1,000	1,000
Mackerel, Spanish											450		450
Sea-bass, Totuava		5,897	6,782								16,222	25,736	54,637
Crustacean:													
Shrimp										4,489			4,489
Total pounds		5,897	6,782							4,489	16,672	27,046	60,886
Grand total	11,085,326	10,805,057	10,742,770	6,955,184	11,093,911	5,133,297	12,757,589	10,857,552	9,870,317	10,379,038	7,579,908	10,215,515	117,475,464

ORIGIN OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1937

Species	California	North of State Boundary	South of International Boundary	Japan	Total pounds
Anchovy	226,229				226,229
Barracuda	1,799,045		1,139,445		2,938,490
Cabezone	8,189				8,189
Cabrilla			145,719		145,719
Carp	38,631				38,631
Catfish	318,971				318,971
Corbina, Mexican			69,363		69,363
Cultus, Pacific	968,080	120	58		968,258
Dolphin	1,993				1,993
Eel	190				190
Flounder, Starry	974,770				974,770
Flying Fish	41,880				41,880
Grouper			61,553		61,553
Hake	63,454				63,454
Halibut, California	812,081		394,870		1,206,951
Halibut, Northern	316,925				316,925
Hardhead	54,162				54,162
Herring, Pacific	631,330				631,330
Kingfish	645,759				645,759
Mackerel, Horse	6,541,026				6,541,026
Mackerel, Pacific	60,832,354		104,347		60,936,701
Mackerel, Spanish			27,122		27,122
Mullet	8,492				8,492
Perch	248,710		879		249,589
Pike	499				499
Pompano, California	4,827				4,827
Pompano, Mexican			162		162
Rock Bass	230,969		94,031		325,000
Rockfish	4,131,547	125	159,542		4,291,214
Sablefish	733,499				733,499
Salmon	6,909,867				6,909,867
Sand Dab	516,045	150			516,195
Sardine	891,430,435		90		891,430,525
Sculpin	137,114		198		137,312
Sea-bass, Black	20,412		695,172		715,584
Sea-bass, Short-fin	1,191				1,191
Sea-bass, Totuava			1,171,623		1,171,623
Sea-bass, White	263,195		336,224		599,419
Sea-trout, California	57				57
Shad	652,657				652,657
Shark	907,414		6,791		914,205
Sheepshead	73,149		8,317		81,466
Skate	447,392				447,392
Smelt	679,882		2,188		682,070
Sole	8,296,783	5,412	27		8,302,222
Split-tail	10,826				10,826
Sucker	7,882				7,882
Swordfish, Broadbill	589,877		35,430		625,307
Swordfish, Marlin	3,559		490		4,049
Tomcod	1,056				1,056
Tuna, Albacore	2,020,016	1,176,754		1,546,939	4,743,709
Tuna, Bluefin	10,822,071		1,871,851		12,693,922
Tuna, Bonito	5,707,212		2,100,858		7,808,070
Tuna, Oriental				523,632	523,632
Tuna, Skipjack	1,884,148		45,219,944	7,594,903	54,698,995
Tuna, Yellowfin	187,732		91,334,726	884,148	92,406,606
Turbot	75,990				75,990
Whitebait	86,177				86,177
Whitefish, Ocean	32,347		24,851		57,198
Yellowtail	223,983		5,147,492		5,371,475
Miscellaneous Fish	161,895		1,357		163,252
Crustacean:					
Crab	1,627,693				1,627,693
Crab, Rock	1,710				1,710
Lobster, Spiny	393,242		936,501		1,329,743
Shrimp	1,111,802		12,784		1,124,586
Mollusk:					
Abalone	2,863,175				2,863,175
Clam, Cockle	28,552				28,552
Clam, Gaper	3,396				3,396
Clam, Pismo	223,955				223,955
Clam, Soft-shell	92,915				92,915
Clam, Washington	21,629				21,629
Mussel	1,490				1,490
Octopus	23,884				23,884
Oyster, Eastern	364,649				364,649
Oyster, Japanese	680,081				680,081
Oyster, Native	44,217				44,217
Scallop	100				100
Squid	501,662				501,662
Total pounds	1,019,768,128	1,182,561	151,104,005	10,549,622	1,182,604,316

430 pounds of Bluefin Tuna shipped from Boston, Massachusetts, is not included in above table.

REGION OF LANDING OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1937

Species	Del Norte and Eureka Region	Sacramento Region	San Francisco Region	Monterey Region	Santa Barbara Region	Los Angeles Region	San Diego Region	Total pounds
Anchovy			102,100	44,205		79,924		226,229
Barracuda					91,574	1,785,716	1,061,200	2,938,490
Cabezone			3,465	4,429	295			8,189
Cabrilla						66,464	79,255	145,719
Carp		38,631						38,631
Catfish		317,914						318,971
Corbina, Mexican						69,363		69,363
Cultus, Pacific	272,662		577,771	115,956	884	899	86	968,258
Dolphin						1,524	469	1,993
Eel			52	15		123		190
Flounder, Starry	2,261		960,337	12,172				974,770
Flying Fish						41,880		41,880
Grouper						8,226	53,327	61,553
Hake			61,067	40		2,347		63,454
Halibut, California			8,945	18,936	311,319	368,609	499,142	1,206,951
Halibut, Northern	233,583		83,342					316,925
Hardhead		54,162						54,162
Herring, Pacific	6,495		613,361	4,335	20		7,119	631,330
Kingfish			6,165	133,902	75	504,905	712	645,759
Mackerel, Horse				42,163		6,400,757	98,106	6,541,026
Mackerel, Pacific			11,502	2,019,549	31,678	55,473,736	3,400,236	60,936,701
Mackerel, Spanish						19,450	7,672	27,122
Mullet						3,020	5,472	8,492
Perch	10,993		98,666	39,848	5,724	91,211	3,147	249,589
Pike		499						499
Pompano, California				101		4,669	57	4,827
Pompano, Mexican							162	162
Rock Bass					12,360	124,917	187,723	325,000
Rockfish	133,417		1,036,957	2,105,286	366,544	345,768	303,242	4,291,214
Sablefish	518,371		73,467	4,178	10	137,319	154	733,499
Salmon	3,834,568	974,871	1,208,414	891,083	922	9		6,909,867
Sand Dab			495,168	12,762	100	8,152	13	516,195
Sardine		58,493,100	196,874,273	279,194,289	899	347,460,215	9,407,749	891,430,525
Sculpin					133	128,003	9,176	137,312
Sea-bass, Black				88	11,860	463,419	240,217	715,584
Sea-bass, Short-fin							1,191	1,191
Sea-bass, Totuava						1,143,298	28,325	1,171,623
Sea-bass, White			11,634	28,240	72,415	75,341	411,789	599,419
Sea-trout, California			20	37				57
Shad		652,345	275	37				652,657
Shark	1,687	9,005	398,632	122,253	123,477	184,074	75,077	914,205
Sheepshead					14,054	57,488	9,924	81,466
Skate			377,353	11,590	44,128	12,935	1,386	447,392

REGION OF LANDING OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1937—Continued

Species	Del Norte and Eureka Region	Sacramento Region	San Francisco Region	Monterey Region	Santa Barbara Region	Los Angeles Region	San Diego Region	Total pounds
Smelt	13,662		322,753	91,897	23,386	225,736	4,636	682,070
Sole	193		7,868,726	133,028	296,381	3,843	51	8,302,222
Split-tail		10,826						10,826
Sucker		7,882						7,882
Swordfish, Broadbill					101,933	296,346	227,028	625,307
Swordfish, Marlin					157	3,892		4,049
Tomcod			1,056					1,056
Tuna, Albacore	258		680	582,664	83	3,833,654	326,370	4,743,709
Tuna, Bluefin				10	8,144	11,287,047	1,399,151	12,694,352
Tuna, Bonito				264	19,988	5,151,146	2,636,672	7,808,070
Tuna, Oriental						523,632		523,632
Tuna, Skipjack					21	23,178,964	31,520,010	54,698,995
Tuna, Yellowfin					195	27,000,950	65,405,461	92,406,606
Turbot			68,317	7,616	36	21		75,990
Whitebait	75,788		8,748	1,641				86,177
Whitefish, Ocean					13,235	16,801	27,162	57,198
Yellowtail					11	544,852	4,826,612	5,371,475
Miscellaneous Fish	14,887	13	138,592	310	2,045	7,405		163,252
Crustacean:								
Crab	192,020		1,423,521	12,108	44			1,627,693
Crab, Rock			192		5	1,513		1,710
Lobster, Spiny					113,986	204,505	1,011,252	1,329,743
Shrimp			1,108,747	3,041		12,798		1,124,586
Mollusk:								
Abalone				1,433,200	1,428,247	1,728		2,863,175
Clam, Cockle			710			27,842		28,552
Clam, Gaper	480		2,916					3,396
Clam, Pismo				14,087	209,868			223,955
Clam, Soft-shell	79		92,836					92,915
Clam, Washington	18,497		3,132					21,629
Mussel				1,490				1,490
Octopus	593		3,695	19,160	278	158		23,884
Oyster, Eastern	6,657		357,992					364,649
Oyster, Japanese		20,222	659,859					680,081
Oyster, Native			44,211		6			44,217
Scallop			100					100
Squid			500	464,739	13	36,410		501,662
Total pounds	5,337,151	60,580,527	215,110,249	287,570,749	3,306,533	487,423,004	123,276,533	1,182,604,746

MONTHLY COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1937

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy	6,668	90	14,460	20,795	53,929	23,323	11,845	5,944	12,540	2,145	20,945	53,545	226,229
Barracuda	98,651	100,874	54,550	408,017	480,309	307,565	364,154	237,277	249,141	266,872	239,757	131,323	2,938,490
Cabezone	374	202	323	1,149	662	147	744	1,261	1,908	1,254	36	129	8,189
Cabrilla	11,601	44,319	32,054	5,816	13,031	6,576	15,335			2,058	6,343	8,586	145,719
Carp	3,130	2,848	12,467	3,313	3,003	721	22	5	985		4,983	7,154	38,631
Catfish	9,900	5,866	28,177	52,543	4,237	2,313	2,994	2,132	55,564	59,717	51,546	43,982	318,971
Corbina, Mexican	22,087	16,929	9,434	13,993	6,182							738	69,363
Cultus, Pacific	86,327	85,247	79,908	45,714	35,464	63,090	72,354	131,702	143,078	107,091	44,341	73,942	968,258
Dolphin								632	1,361				1,993
Eel			4	12				31	20	108	15		190
Flounder, Starry	138,100	91,473	71,475	58,733	13,474	50,134	138,940	308,261	64,803	11,132	19,904	8,341	974,770
Flying Fish				627	10,427	2,109	10,714	11,451	5,769	783			41,880
Grouper	5,681	16,466	15,838	3,282	12,211	3,143		843	105		2,019	1,965	61,553
Hake	2,450	8,169	4,229	5,340			190	9,220	12,821	10,920	6,980	3,135	63,454
Halibut, California	112,795	136,464	161,180	104,521	84,671	114,040	108,036	86,730	91,305	51,200	71,841	84,168	1,206,951
Halibut, Northern			2,165	39,044	53,036	74,695	137,783	32	4,810	5,360			316,925
Hardhead	3,368	7,505	6,334	2,550	3,050	1,500			920	8,940	11,360	8,635	54,162
Herring, Pacific	276,412	233,800	34,468	853	2,434	1,006	220				6,307	75,830	631,330
Kingfish	65,537	60,296	104,979	79,957	38,503	29,809	29,101	43,541	48,323	53,638	42,216	49,859	645,759
Mackerel, Horse	110,092	1,000,549	92,088	53,449	356,297	1,026,590	1,222,602	194,887	547,848	334,278	1,496,196	106,150	6,541,026
Mackerel, Pacific	3,144,945	475,724	443,949	517,413	4,026,015	2,452,642	6,538,051	13,548,327	10,303,999	8,522,143	7,406,421	3,557,072	60,936,701
Mackerel, Spanish	4,513	1,367	1,320		120				750	4,341	6,496	8,215	27,122
Mullet			465	1,629	2,583	2,873	431	254		257			8,492
Perch	12,574	11,748	41,120	73,576	2,346	5,052	17,311	14,922	15,482	21,068	16,784	17,606	249,589
Pike		43	219	152						5	24	56	499
Pompano, California	902	16	663	426	132	320	640	931	746	44	4	3	4,827
Pompano, Mexican					162								162
Rock Bass	9,574	9,793	9,527	9,576	41,679	59,348	43,282	61,369	22,912	20,686	24,594	12,660	325,000
Rockfish	248,120	365,300	600,735	409,563	207,962	280,515	241,252	335,251	381,001	377,570	401,025	442,920	4,291,214
Sablefish	12,707	36,165	56,380	67,609	46,474	176,766	113,705	79,276	38,725	82,118	13,979	9,595	733,499
Salmon	8,723	13,085	48,127	293,294	605,304	1,361,775	1,815,266	1,591,423	1,172,563		49	258	6,909,867
Sand Dab	31,151	38,614	54,914	49,977	32,945	41,974	39,479	52,053	38,584	48,051	47,532	40,921	516,195
Sardine	95,881,341	142,544,341	118,548,873	8,745,260	504,565	455,218	480,483	10,244,242	71,240,902	135,581,605	142,879,421	164,324,274	891,430,525
Sculpin	9,409	11,362	12,375	11,163	6,457	14,762	14,553	15,815	12,683	9,802	6,775	12,156	137,312
Sea-bass, Black	26,742	27,852	43,304	32,039	17,810	54,055	109,647	145,818	105,854	72,588	29,000	50,875	715,584
Sea-bass, Short-fin					658	274	11		238			10	1,191
Sea-bass, Totuava	9,979	88,894	165,428	137,911	106,367	74,590					291,400	297,054	1,171,623
Sea-bass, White	4,060	10,319	17,242	19,566	45,435	25,727	40,494	36,601	177,228	96,165	87,855	38,727	599,419
Sea-trout, California					20			13	24				57
Shad		113	12,355	17,524	622,665								652,657
Shark	72,315	115,892	105,467	57,229	65,181	41,503	38,433	38,154	61,431	63,262	90,808	164,530	914,205
Sheepshead	5,737	9,861	15,964	8,343	2,429	1,072	1,447	3,174	806	11,108	13,996	7,529	81,466
Skate	39,703	52,939	40,286	49,176	11,865	18,276	19,276	25,241	31,398	20,208	62,213	76,811	447,392

MONTHLY COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1937—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Smelt	53,391	53,339	62,357	66,520	60,196	68,209	53,033	70,180	65,512	52,792	40,382	36,159	682,070
Sole	520,630	603,062	818,461	681,772	601,751	635,202	746,292	759,525	919,787	1,024,929	512,185	478,626	8,302,222
Split-tail	1,215	4,227	2,007	1,173	265				628		41	1,270	10,826
Sucker	2,048	1,186	663	177						15	1,775	2,018	7,882
Swordfish, Broadbill					1,344	46,526	129,630	194,976	108,119	131,808	12,904		625,307
Swordfish, Marlin				490			319	3,240					4,049
Tomcod	523	234	91	85	105	18							1,056
Tuna, Albacore			136,377	184,708		704,135	1,053,675	525,428	1,113,669	463,499	350,417	211,801	4,743,709
Tuna, Bluefin				406,018	2,365,480	5,062,557	1,739,402	1,704,020	1,241,928	138,818	14,499	21,630	12,694,352
Tuna, Bonito	271,156	41,653	47,970	1,291,414	641,446	718,548	1,161,389	881,164	1,358,961	565,781	592,498	236,090	7,808,070
Tuna, Oriental			82,010	38,240	18,866		92,940	165,240	22,174		52,554	51,608	523,632
Tuna, Skipjack	561,836	249,815	1,612,546	2,754,030	5,497,115	4,705,734	6,583,806	8,007,153	13,037,214	8,075,825	2,599,933	1,013,988	54,698,995
Tuna, Yellowfin	4,465,118	4,770,705	6,005,543	7,805,136	13,236,132	8,999,176	10,982,332	12,869,228	6,200,784	3,273,613	4,023,627	9,775,212	92,406,606
Turbot	3,942	3,370	8,514	17,593	3,070	1,170	1,472	8,932	3,785	6,005	10,254	7,883	75,990
Whitebait	1,834	7,284	13,160	13,249	19,965	18,384	10,406	1,734	161				86,177
Whitefish, Ocean	5,182	7,148	2,277	2,830	299	710	158	1,050	1,106	6,861	15,903	13,674	57,198
Yellowtail	79,629	236,359	140,944	531,014	318,294	553,316	575,144	1,238,777	715,985	427,126	407,580	147,307	5,371,475
Miscellaneous Fish	10,946	14,363	16,136	14,338	9,649	7,014	15,451	15,021	10,870	20,673	13,352	15,439	163,252
Crustacean:													
Crab	200,136	221,566	62,388	76,902	92,271	48,834	69,770	52,968			372,848	430,010	1,627,693
Crab, Rock	100	866	200	235	5		122	20		12	27	123	1,710
Lobster, Spiny	236,150	254,282	220,444							146,893	211,992	259,982	1,329,743
Shrimp	36,966	47,906	83,428	87,625	97,622	123,329	150,324	175,591	156,265	69,195	57,992	38,343	1,124,586
Mollusk:													
Abalone	135,701		39,550	323,458	306,089	315,591	482,782	306,751	357,484	170,137	76,647	348,985	2,863,175
Clam, Cockle	2,687	2,495	2,783	2,535	3,186	2,685	2,730	3,072	314	2,108	1,752	2,205	28,552
Clam, Gaper	582	136	130	230	320	310	440	492	330	108	164	154	3,396
Clam, Pismo	14,226	14,475	16,564	16,071	18,943	18,696	23,217	26,144	19,906	18,193	18,964	18,556	223,955
Clam, Soft-shell	4,506	4,357	12,047	4,456	10,312	8,748	7,741	8,982	7,725	9,509	7,915	6,617	92,915
Clam, Washington	2,547	2,543	2,595	2,956	328	380	366	342	2,429	1,084	3,059	3,000	21,629
Mussel	690	700	100										1,490
Octopus	993	2,503	5,671	3,072	2,742	3,527	942	1,149	2,475	284	289	237	23,884
Oyster, Eastern	25,194	24,930	45,726	32,985	20,949	15,999	15,960	29,559	32,225	33,075	37,259	50,788	364,649
Oyster, Japanese	41,581	30,533	43,813	71,021	60,049	41,517	37,445	26,918	47,678	71,103	100,824	107,599	680,081
Oyster, Native	3,466	7,052	8,281	11,266	1,247	5,571	4,312	1,224		290	179	1,329	44,217
Scallop									100				100
Squid	1,590	39,305	9,595	1,233	13,970	50,895	101,165	90	645		16,943	266,231	501,662
Total pounds	107,160,233	152,270,919	130,445,217	25,843,966	30,922,104	28,930,284	35,671,560	54,305,783	110,274,886	160,556,253	162,957,923	183,265,618	1,182,604,746

COMMERCIAL FISH LANDINGS IN DEL NORTE AND EUREKA REGION DURING 1937

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cultus, Pacific	20,658	61,217	54,206	13,905	2,105	2,461	10,959	30,472	19,072	31,546	2,696	23,365	272,662
Flounder, Starry	863	837	245	251	50							15	2,261
Halibut, Northern			1,075	32,202	41,996	47,870	100,238	32	4,810	5,360			233,583
Herring, Pacific	2,425	4,070											6,495
Perch		1,011	548	8,324	1,065				30			15	10,993
Rockfish	4,734	10,420	12,171	14,974	11,347	14,990	15,970	10,651	9,405	20,462	1,017	7,267	133,417
Sablefish		4,305	12,160	30,059	41,435	170,679	76,159	68,154	36,877	76,934	1,609		518,371
Salmon				21,764	303,586	467,715	1,187,619	1,213,802	640,032				3,834,568
Shark				60		189	447	77	41	330		543	1,687
Smelt	5,268			222	271	858	160	1,633	2,383	910	645	1,312	13,662
Sole			30				145	18					193
Tuna, Albacore										258			258
Whitebait	1,834	6,473	10,918	11,606	17,492	16,322	9,564	1,454	125				75,788
Miscellaneous fish	1,546	356	563	258	46	44	800	2,037	2,357	3,165	330	3,325	14,887
Crustacean:													
Crab	24,868	15,876	1,532	2,278	27,176	27,782	36,882	37,514				18,112	192,020
Mollusk:													
Clam, Gaper	480												480
Clam, Soft-shell									23	41	15		79
Clam, Washington	2,327	2,334	2,314	2,665					2,179	988	2,841	2,849	18,497
Octopus	262		29	87	41		48		20	83		23	593
Oyster, Eastern											5,287	1,370	6,657
Total pounds	65,265	106,908	95,791	138,655	446,610	748,910	1,438,991	1,365,904	717,404	140,077	14,440	58,196	5,337,151

COMMERCIAL FISH LANDINGS IN SACRAMENTO REGION DURING 1937

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Carp	3,130	2,848	12,467	3,313	3,093	721	22	5	985		4,983	7,154	38,631
Catfish	9,000	5,866	23,177	52,543	4,237	2,313	2,994	2,132	55,564	59,717	51,546	43,982	318,971
Hardhead	3,368	7,505	6,334	2,550	3,050	1,500			920	8,940	11,360	8,635	54,162
Pike		43	219	152						5	24	56	499
Salmon	8,723	13,076	20,796	16,236	83,971	30,793		268,588	532,381		49	258	974,871
Sardine	8,999,000	3,477,500						2,753,650	9,479,250	13,588,250	9,558,700	10,636,750	58,493,100
Shad		113	12,337	17,285	622,610								652,345
Shark								60	1,657	7,288			9,005
Split-tail	1,215	4,227	2,007	1,173	265				628		41	1,270	10,826
Sucker	2,048	1,186	663	177						15	1,775	2,018	7,882
Miscellaneous fish		2			11								13
Mollusk:													
Oyster, Japanese	20,222												20,222
Total pounds	9,047,606	3,512,366	83,000	93,429	717,147	35,327	3,016	3,024,435	10,071,385	13,664,215	9,628,478	10,700,123	60,580,527

COMMERCIAL FISH LANDINGS IN SAN FRANCISCO REGION DURING 1937

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy				3,100	51,750	17,350	11,100	5,300	11,700	1,800			102,100
Cabezone	200	100	150	1,050	600		400	450		415		100	3,465
Cultus, Pacific	48,113	17,029	18,795	27,472	31,401	58,459	57,922	95,433	114,562	65,039	18,767	24,659	577,651
Eel			4	12				16	20				52
Flounder, Starry	135,917	89,344	69,474	53,824	13,279	50,013	138,940	308,190	64,652	10,615	18,356	7,733	960,337
Hake	2,450	6,753	3,313	5,340			150	9,220	12,821	10,920	6,980	3,120	61,067
Halibut, California	2,208	764	745	918	464	42	316	154	141	185	898	2,110	8,945
Halibut, Northern			1,090	6,842	11,040	26,825	37,545						83,342
Herring, Pacific	270,975	229,035	34,459	853	9						2,200	75,830	613,361
Kingfish				1,487	525	1,470	1,322	960	90	6	305		6,165
Mackerel, Pacific	225						85	729	2,987	4,069	735	2,672	11,502
Perch	6,009	7,043	25,015	32,762			3,318	1,346	3,746	9,075	4,532	5,820	98,666
Rockfish	37,234	32,975	131,223	103,944	88,770	92,699	86,880	91,544	127,250	111,872	96,801	35,640	1,036,832
Sablefish	658	1,540	1,018	14,173	2,475	3,641	36,930	9,629	853	2,250		300	73,467
Salmon					77,824	491,672	529,785	103,033	100				1,208,414
Sand Dab	30,260	37,615	53,267	48,782	31,901	37,896	37,248	48,708	36,700	46,156	46,573	39,912	495,018
Sardine	9,623,800	6,243,700	175,215	57,950	67,300	281,100	404,360	5,140,110	33,321,386	52,314,730	43,917,679	45,326,943	196,874,273
Sea-bass, White								146	11,272	78		138	11,634
Sea-trout, California					20								20
Shad				220	55								275
Shark	39,188	80,225	59,505	9,118	855	2,362	3,204	4,899	13,812	28,169	45,074	112,221	398,632
Skate	33,065	44,223	31,200	35,940	8,550	13,955	16,090	21,695	28,245	15,521	57,914	70,955	377,353
Smelt	24,027	31,560	45,339	34,961	33,293	27,251	22,026	35,990	22,910	20,153	12,908	12,335	322,753
Sole	506,804	575,627	770,990	596,847	545,025	585,662	718,718	738,876	875,401	999,611	489,731	460,022	7,863,314
Tomcod	523	234	91	85	105	18							1,056
Tuna, Albacore										680			680
Turbot	3,939	1,710	7,723	15,000	3,006	1,170	1,472	8,915	3,785	5,975	8,661	6,961	68,317
Whitebait		802	2,035	1,363	1,625	1,940	703	280					8,748
Miscellaneous fish	9,400	13,948	13,706	13,948	9,169	6,920	14,606	11,780	7,540	16,791	11,971	8,813	138,592
Crustacean:													
Crab	175,096	205,220	59,650	74,412	65,087	21,044	32,882	15,454			365,348	409,328	1,423,521
Crab, Rock			50				122	20					192
Shrimp	35,827	47,906	72,967	87,209	97,622	123,329	150,324	175,591	156,108	67,728	56,340	37,796	1,108,747

COMMERCIAL FISH LANDINGS IN SAN FRANCISCO REGION DURING 1937– Continued

Fishing Boat Landings from California Waters—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Mollusk:													
Clam, Cockle	22	25	94	53	119	59	106	85	51	19	37	40	710
Clam, Gaper	102	136	130	230	320	310	440	492	330	108	164	154	2,916
Clam, Soft-shell	4,506	4,357	12,047	4,456	10,312	8,748	7,741	8,982	7,702	9,468	7,900	6,617	92,836
Clam, Washington	220	209	281	291	328	380	366	342	250	96	218	151	3,132
Octopus	244	177	168	1,122	914	330	307	103	107	70	96	57	3,695
Oyster, Eastern	25,194	24,930	45,726	32,985	20,949	15,999	15,960	29,559	32,225	33,075	31,972	49,418	357,992
Oyster, Japanese	21,359	30,533	43,813	71,021	60,049	41,517	37,445	26,918	47,678	71,103	100,824	107,599	659,859
Oyster, Native	3,466	7,046	8,281	11,266	1,247	5,571	4,312	1,224		290	179	1,329	44,211
Scallop									100				100
Squid	325								175				500
Total pounds	11,041,356	7,734,766	1,687,564	1,349,036	1,235,988	1,917,732	2,373,125	6,902,173	34,904,699	53,846,067	45,303,163	46,808,773	215,104,442

Fishing Boat Landings from Waters North of State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cultus, Pacific						120							120
Rockfish						125							125
Sand Dab						150							150
Sole						5,412							5,412
Total pounds						5,807							5,807
Grand total	11,041,356	7,734,766	1,687,564	1,349,036	1,235,988	1,923,539	2,373,125	6,902,173	34,904,699	53,846,067	45,303,163	46,808,773	215,110,249

COMMERCIAL FISH LANDINGS IN MONTEREY REGION DURING 1937

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy		20	14,460	15,115		3,770			840			10,000	44,205
Cabezone	174	102	155	99	23	57	344	811	1,838	775	36	15	4,429
Cultus, Pacific	17,530	6,668	6,602	4,234	1,925	2,040	3,473	5,797	9,276	10,293	22,169	25,899	115,956
Eel								15					15
Flounder, Starry	1,320	1,292	1,756	4,658	145	121		71	151	517	1,548	593	12,172
Hake							40						40
Halibut, California	1,452	4,397	4,746	1,714	105	573	1,054	209	491	305	2,036	1,794	18,936
Herring, Pacific		690			2,425	1,000	220						4,335
Kingfish	6,154	6,775	33,180	20,379	8,041	1,348	3,869	5,709	1,145	19,456	10,906	16,940	133,902
Mackerel, Horse	55	272	199	1,424	13,306	7,256	7,116	2,787	7,719	903	1,043	83	42,163
Mackerel, Pacific	360,923	76,836	5,898	6,599	22,371	38,576	316,446	573,041	287,135	157,702	99,477	74,545	2,019,549
Perch	84	418	8,324	23,928			4,079	1,384	767	355	302	207	39,848
Pompano, California			15	16	70								101
Rockfish	141,038	168,968	270,300	185,545	37,703	106,718	96,892	168,994	198,135	196,138	224,222	310,633	2,105,286
Sablefish	600		219	1,920	627	537	212	27	20		16		4,178
Salmon			27,331	255,234	139,001	371,595	97,862						891,083
Sand Dab	15	140	154	136	439	3,812	1,830	2,591	1,400	1,187	339	659	12,762
Sardine	41,664,346	45,102,935	1,540,854	270,200	324,825	158,123	70,350	2,348,553	28,435,197	69,575,313	37,624,579	52,079,014	279,194,289
Sea-bass, Black		36		2					23				88
Sea-bass, White	390	42	96	2,954	62				19,749	4,801	84	62	28,240
Sea-trout, California								13	24				37
Shad			18	19									37
Shark	21,083	16,602	5,414	1,003		373	265	254	8,004	7,241	24,625	37,389	122,253
Skate	59	2,132	2,370	2,431	275	1,027	284	168	213	207	786	1,638	11,590
Smelt	1,015	4,138	617	2,735	2,162	17,820	13,150	14,612	14,899	10,782	6,860	3,067	91,897
Sole	1,483	8,079	28,824	44,829	1,688	1,640	885	1,694	16,171	6,305	11,938	9,492	133,028
Tuna, Albacore									462,083	120,581			582,664
Tuna, Bluefin									10				10
Tuna, Bonito	195	11							20	23	15		264
Turbot	3	1,660	791	2,553	60					30	1,553	886	7,616
Whitebait		9	207	280	848	122	139		36				1,641
Miscellaneous Fish			168					80	50	12			310
Crustacean:													
Crab	172	426	1,206	212	8	8	6				7,500	2,570	12,108
Shrimp			892	416					157	37	992	547	3,041
Mollusk:													
Abalone	11,000		28,850	139,550	192,750	180,075	277,900	194,850	167,000	92,875	16,200	132,150	1,433,200
Clam, Pismo	1,631	1,658	936	2,082					352	1,892	2,536	3,000	14,087
Mussel	690	700	100										1,490
Octopus	414	2,310	5,338	1,839	1,749	3,152	587	1,046	2,348	124	114	139	19,160
Squid	1,265	17,615		915	13,245	50,865	101,165		470		12,968	266,231	464,739
Total pounds	42,233,091	45,424,931	1,990,020	993,198	763,853	950,608	998,268	3,322,706	29,635,723	70,207,854	38,072,944	52,977,553	287,570,749

COMMERCIAL FISH LANDINGS IN SANTA BARBARA REGION DURING 1937

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda		7	35		2,606	50			53,090	17,904	17,882		91,574
Cabezone			18		39	90			70	64		14	295
Cultus, Pacific	10	67	280			10			46	213	258		884
Halibut, California	14,956	16,108	16,914	11,969	25,947	24,714	33,331	22,739	30,361	39,213	45,694	29,373	311,319
Herring, Pacific		5	9			6							20
Kingfish						10						65	75
Mackerel, Pacific	460	1,982	954	17	1,465	504	728	1,617	6,890	9,421	3,894	3,746	31,678
Perch	68	444	817	1,689	25		2	824	1,116	675	24	40	5,724
Rock Bass	228	531	750	762	293	3,053	1,544	838	1,484	327	1,620	930	12,360
Rockfish	32,613	44,494	59,012	38,847	29,279	32,532	19,951	20,049	27,038	13,416	26,457	22,856	366,544
Sablefish									10				10
Salmon					922								922
Sand Dab				100									100
Sardine				88		495	71	245					899
Sculpin	5	3	5	84						4	32		133
Sea-bass, Black	336		20	2,484	280	34	463	1,335	162	3,645	1,825	1,276	11,860
Sea-bass, White	2,864	3,985	3,495	3,027	169	1,256	1,378	248	16,212	17,013	17,215	5,553	72,415
Shark	2,406	2,771	10,165	14,199	33,898	8,903	11,086	8,643	5,311	9,439	8,157	8,499	123,477
Sheepshead	2,189	4,139	3,341	240	462	320	254	537	93	139	441	1,899	14,054
Skate	4,770	3,909	3,170	8,577	2,280	2,725	2,781	2,710	2,381	4,000	3,353	3,472	44,128
Smelt		522	915	4,894	7,389	4,572	925	784	1,428	450	604	903	23,386
Sole	12,220	18,985	18,054	39,537	54,710	42,205	26,352	18,075	27,885	18,880	10,426	9,052	296,381
Swordfish, Broadbill						3,812	20,103	49,607	21,369	3,200	3,842		101,933
Swordfish, Marlin								157					157
Tuna, Albacore							20	43	20				83
Tuna, Bluefin								5,433	2,531	120			8,144
Tuna, Bonito	22							6,492	9,578	1,959	528	1,409	19,988
Tuna, Skipjack	2									19			21
Tuna, Yellowfin										195			195
Turbot												36	36
Whitefish, Ocean	145	255	466	446			137	122	612	304	7,852	2,896	13,235
Yellowtail			11										11
Miscellaneous Fish			96		408		30	103	291	167	90	860	2,045
Crustacean:													
Crab		44											44
Crab, Rock					5								5
Lobster, Spiny	13,425	12,127	9,584							33,235	24,075	21,540	113,986
Mollusk:													
Abalone	124,701		10,700	183,908	113,339	135,470	204,882	111,901	190,384	77,162	60,440	215,360	1,428,247
Clam, Pismo	12,595	12,817	15,628	13,989	18,943	18,696	23,217	26,144	19,554	16,301	16,428	15,556	209,868
Octopus	30		128	24	38	45					6	7	278
Oyster, Native		6											6
Squid						13							13
Total pounds	224,045	123,201	154,567	324,381	292,497	279,515	347,255	278,706	417,916	267,465	251,143	345,342	3,306,533

COMMERCIAL FISH LANDINGS IN LOS ANGELES REGION DURING 1937

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy	6,668	70	----------	2,580	2,179	2,203	745	644	----------	345	20,945	43,545	79,924
Barracuda	----------	49	14,080	274,201	306,591	259,779	196,751	106,126	125,073	18,754	30,882	----------	1,332,286
Cultus, Pacific	16	266	25	----------	----------	----------	----------	----------	122	----------	451	19	899
Dolphin	----------	----------	----------	----------	----------	----------	----------	301	1,223	----------	----------	----------	1,524
Eel	----------	----------	----------	----------	----------	----------	----------	----------	----------	108	15	----------	123
Flying Fish	----------	----------	----------	627	10,427	2,109	10,714	11,451	5,769	783	----------	----------	41,880
Hake	----------	1,416	916	----------	----------	----------	----------	----------	----------	----------	----------	15	2,347
Halibut, California	23,993	34,543	82,890	65,933	46,191	28,379	12,829	15,898	6,139	5,304	9,038	9,499	340,636
Kingfish	59,333	53,512	71,779	58,082	29,798	26,981	23,910	36,501	47,088	34,111	30,971	32,839	504,905
Mackerel, Horse	110,037	981,797	91,889	41,737	281,353	1,011,634	1,215,486	192,100	540,129	333,375	1,495,153	106,067	6,400,757
Mackerel, Pacific	2,702,218	237,007	365,476	347,915	2,785,307	1,617,759	5,839,179	12,917,003	9,987,141	8,252,951	7,281,825	3,139,955	55,473,736
Mullet	----------	----------	465	824	189	1,285	----------	----------	----------	257	----------	----------	3,020
Perch	6,126	2,832	6,416	6,873	1,256	4,512	8,766	10,570	9,662	10,963	11,711	11,524	91,211
Pompano, California	902	16	648	370	62	320	623	931	746	44	4	3	4,669
Rock Bass	3,003	2,313	3,038	5,278	15,777	19,475	13,859	18,114	7,174	8,494	6,541	2,479	105,545
Rockfish	20,562	53,375	75,380	21,693	11,714	8,658	3,233	19,267	11,737	21,501	42,182	56,466	345,768
Sablefish	11,449	30,320	42,983	21,457	1,937	1,909	250	1,466	965	2,934	12,354	9,295	137,319
Salmon	----------	9	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	9
Sand Dab	863	859	1,493	959	605	116	341	754	484	708	620	350	8,152
Sardine	35,550,530	82,900,915	112,557,739	8,416,952	63,475	9,935	5,361	1,252	5,069	103,222	51,631,758	56,214,007	347,460,215
Sculpin	9,165	9,201	10,460	10,997	5,991	14,630	14,553	15,694	12,525	9,375	6,394	9,018	128,003
Sea-bass, Black	55	279	227	720	280	1,030	672	1,072	434	240	78	163	5,250
Sea-bass, White	730	707	5,381	6,956	2,565	2,349	940	1,157	20,223	4,255	3,901	15,393	64,557
Shark	7,436	11,580	19,948	28,910	24,289	20,518	22,452	21,868	8,809	5,330	8,128	2,786	182,054
Sheepshead	1,547	4,850	11,955	7,738	1,440	140	1,071	2,488	713	8,187	12,286	3,741	56,156
Skate	1,809	1,889	3,546	1,628	760	569	121	668	559	480	160	746	12,935
Smelt	21,723	16,403	15,486	23,168	16,910	17,708	16,698	17,154	23,892	19,956	18,412	18,226	225,736
Sole	123	359	563	559	301	283	180	862	330	133	90	60	3,843
Swordfish, Broadbill	----------	----------	----------	----------	1,108	22,361	69,985	71,604	54,203	72,784	4,301	----------	296,346
Swordfish, Marlin	----------	----------	----------	----------	----------	----------	319	3,083	----------	----------	----------	----------	3,402
Tuna, Albacore	----------	----------	----------	----------	----------	413,692	430,600	259,263	1,670	668	4,068	----------	1,109,961
Tuna, Bluefin	----------	----------	----------	53	2,151,573	4,676,550	822,217	1,166,574	982,051	135,473	14,454	20,960	9,969,905
Tuna, Bonito	112,864	7,632	14,420	1,254,772	394,968	404,474	491,344	450,070	667,431	252,594	96,830	138,105	4,285,504
Tuna, Skipjack	----------	----------	----------	----------	----------	----------	----------	31,161	464,529	79,702	----------	----------	575,392
Tuna, Yellowfin	----------	----------	----------	----------	----------	6,133	21,516	65,975	60,730	926	----------	----------	155,280
Turbot	----------	----------	----------	----------	4	----------	----------	17	----------	----------	----------	----------	21
Whitefish, Ocean	1,288	2,295	1,716	749	299	2	21	518	227	1,362	1,093	3,325	12,895
Yellowtail	281	----------	6,116	67,557	10,371	9,414	2,977	1,180	25,062	2,438	40	47	125,483
Miscellaneous fish	----------	57	1,603	132	15	50	15	311	632	538	681	2,014	6,048

COMMERCIAL FISH LANDINGS IN LOS ANGELES REGION DURING 1937—Continued

Fishing Boat Landings from California Waters—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Crustacean:													
Crab, Rock	100	866	150	235						12	27	123	1,513
Lobster, Spiny	12,897	15,555	13,454							66,515	60,858	33,696	202,975
Shrimp	14												14
Mollusk:													
Abalone						46			100	100	7	1,475	1,728
Clam, Cockle	2,665	2,470	2,689	2,482	3,067	2,626	2,624	2,987	263	2,089	1,715	2,165	27,842
Octupus	43	16	8							7	73	11	158
Squid		21,690	9,595	318	725	17		90			3,975		36,410
Total pounds	38,668,440	84,395,148	113,432,534	10,672,455	6,171,527	8,587,646	9,230,352	15,446,174	13,072,904	9,457,018	60,812,021	59,878,117	429,824,336

Fishing Boat Landings from Waters South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	38,051	67,518	19,737				90			123,885	116,372	87,777	453,430
Cabrilla	8,325	5,643	5,154	380	13,031	6,277	9,200			2,058	3,500	6,010	59,668
Grouper	745				110						2,019	1,659	4,533
Halibut, California		10,485	922					13,000			3,355	211	27,973
Mackerel, Spanish	4,196	115							264	3,939	4,504	6,432	19,450
Rock Bass	3,461	2,823	2,508			400				2,359	4,446	2,975	19,372
Sea-bass, Black	21,037	10,282	26,359	6,597	2,268	17,060	78,703	102,101	92,740	48,957	14,601	36,156	456,831
Sea-bass, White		259	44							1,825	8,101	555	10,784
Shark	440	230	161							634	555		2,020
Sheepshead		145	600	120		260						207	1,332
Swordfish, Marlin				490									490
Tuna, Bluefin				405,965	213,144	101,065	136,125	398,290	61,453			670	1,316,712
Tuna, Bonito	5,048	4,275	910		335	3,253	14,281	270,973	376,186	18,569	164,043	7,599	865,472
Tuna, Skipjack	284,358	133,335	166,782	401,116	3,084,654	2,052,036	2,715,397	1,602,193	2,864,205	1,093,984	550,662	59,947	15,008,669
Tuna, Yellowfin	711,968	654,915	1,093,361	1,897,585	6,630,905	3,828,636	2,966,520	3,358,788	1,484,200	446,895	1,324,170	1,563,579	25,961,522
Whitefish, Ocean	16	1,625	95	751		708				326		385	3,906
Yellowtail	11,911	22,398	575	985	12,680	70,624	64,399	113,562	30,618	38,254	27,340	25,784	419,130
Miscellaneous fish								650			280	427	1,357
Crustacean:													
Lobster, Spiny	1,530												1,530
Total pounds	1,091,146	914,048	1,317,608	2,713,899	9,957,127	6,080,319	5,984,805	5,859,557	4,909,666	1,781,685	2,223,948	1,800,373	44,634,181

Shipments from North of State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore									512,023	341,312	231,007	92,412	1,176,754
Total pounds									512,023	341,312	231,007	92,412	1,176,754

Shipments from South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cabrilla		1,909	335	708		299					2,086	1,459	6,796
Corbina, Mexican	22,087	16,929	9,434	13,993	6,182							738	69,363
Grouper		815	370	1,419	784	305							3,693
Sea-bass, Black		1,234		104									1,338
Sea-bass, Totuava	9,979	88,894	145,788	129,226	106,367	74,590					291,400	297,054	1,143,298
Tuna, Bonito											170		170
Yellowtail						239							239
Crustacean: Shrimp	1,125		9,569							1,430	660		12,784
Total pounds	33,191	109,781	165,496	145,450	113,333	75,433				1,430	294,316	299,251	1,237,681

Shipments from Japan

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore			136,377	184,708		37,823	549,330	266,122	137,848		115,342	119,389	1,546,939
Tuna, Oriental			82,010	38,240	18,866		92,940	165,240	22,174		52,554	51,608	523,632
Tuna, Skipjack			1,198,024	1,811,181	1,846,029	392,608	856,907	799,557	656,431		34,166		7,594,903
Tuna, Yellowfin							164,934	630,618	1,565		87,031		884,148
Total pounds			1,416,411	2,034,129	1,864,895	430,431	1,664,111	1,861,537	818,018		289,093	170,997	10,549,622
Grand total	39,792,777	85,418,977	116,332,049	15,565,933	18,106,882	15,173,829	16,879,268	23,167,268	19,312,611	11,581,445	63,850,385	62,241,150	487,422,574

430 pounds of Bluefin Tuna shipped from Boston, Massachusetts, not included in above table.

COMMERCIAL FISH LANDINGS IN SAN DIEGO REGION DURING 1937

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda		887	4,783	99,077	58,217	9,385	114,227	60,592	26,379	1,083	555		375,185
Cultus, Pacific				13	15								28
Dolphin								331	138				469
Halibut, California	2,984	15,995	46,823	13,825	9,354	25,239	143	18	2,123	5,607	6,313	3,815	132,245
Herring, Pacific	3,012										4,107		7,119
Kingfish	50	9	20	9	139			371		65	34	15	712
Mackerel, Horse		18,480		10,288	61,638	7,700							98,106
Mackerel, Pacific	81,119	159,899	71,621	161,650	1,190,755	734,270	374,118	49,824	19,228	97,211	20,049	336,145	3,295,889
Mullet				805	2,394	1,588	431	254					5,472
Perch						200	1,109	798	161				2,268
Pompano, California				40			17						57
Rock Bass	2,222	3,768	2,313	1,763	3,036	6,073	23,474	36,280	13,716	8,148	7,849	4,372	113,064
Rockfish	7,665	23,029	16,770	16,678	15,564	14,191	16,109	9,967	3,250	11,725	3,253	5,499	143,700
Sablefish							154						154
Sand Dab	13												13
Sardine	43,665	4,819,291	4,275,055	70	48,965	5,565	341	432			146,705	67,560	9,407,659
Sculpin	239	2,158	1,910	47	435			121	158	423	349	3,138	8,978
Sea-bass, Black		538	117			357	221	239	1,032	22	421	267	3,214
Sea-bass, Short-fin					658	274	11		238			10	1,191
Sea-bass, White	6	4,543	2,813	2,881	36,546	725	14,942	6,784	6,677	3,019	4,300	3,113	86,349
Shark	1,762	4,261	10,274	3,872	5,211	8,088	924	920	23,797	4,831	3,874	2,492	70,306
Sheepshead	615	354	68				70	10		326	556	940	2,939
Skate		786		600									1,386
Smelt	565	716		540	136						418	73	2,448
Sole		12					12						24
Swordfish, Broadbill					236	18,001	34,507	64,922	17,992	51,613	4,327		191,598
Tuna, Albacore						252,620	73,725		25				326,370
Tuna, Bluefin					725	177,755	434,069	72,469	158,994				844,012
Tuna, Bonito	137,974	7,707	4,474	1,753	190,836	181,542	571,022	12,558	222,830	14,246	45,705	10,739	1,401,456
Tuna, Skipjack								28,586	1,198,971	81,178			1,308,735
Tuna, Yellowfin								10,591	21,648	18			32,257
Whitefish, Ocean	1,896	1,108						95	19	1,629	1,230	240	6,217
Yellowtail	274	469	767	10,639	12,753	12,410	31,772	8,645	19,917	345	498		98,489
Crustacean:													
Lobster, Spiny	1,185	423	1,382							38,473	15,676	19,142	76,281
Total pounds	285,246	5,064,433	4,439,200	324,550	1,637,663	1,455,983	1,691,468	364,807	1,737,299	319,962	266,219	457,560	18,044,390

Fishing Boat Landings from Waters South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	60,600	32,413	15,915	34,739	112,895	38,351	53,086	70,559	44,599	105,246	74,066	43,546	686,015
Cabrilla	3,276	36,767	19,069	4,428			6,045				757	1,117	71,459
Cultus, Pacific				40	18								58
Grouper	4,936	15,651	15,468	1,863	11,317	2,838		843	105			306	53,327
Halibut, California	67,202	54,172	8,140	10,162	2,610	35,033	60,363	34,712	52,044	586	4,447	37,366	366,897
Mackerel, Pacific				1,232	26,117	61,533	7,495	6,113	618	789	441	9	104,347
Mackerel, Spanish	317	1,252	1,320		120				486	402	1,992	1,783	7,672
Perch	287					340	37				215		879
Pompano, Mexican					162								162
Rock Bass	660	358	518	1,773	22,523	30,347	4,405	6,137	538	1,358	4,138	1,904	74,659
Rockfish	4,274	32,030	35,879	27,882	13,585	10,602	2,217	14,779	4,186	2,456	7,093	4,559	159,542
Sardine										90			90
Sculpin				35	31	132							198
Sea-bass, Black	5,254	15,483	16,581	22,195	14,982	35,574	29,588	41,071	11,463	19,724	12,075	13,013	237,003
Sea-bass, White	70	783	5,413	3,748	6,093	21,397	23,234	28,266	103,095	65,174	54,254	13,913	325,440
Shark		223		67	928	1,070	55	1,433			395	600	4,771
Sheepshead	1,386	373		245	527	352	52	139		2,456	713	742	6,985
Smelt	793				35		34	7		541	535	243	2,188
Sole					27								27
Swordfish, Broadbill						2,352	5,035	8,843	14,555	4,211	434		35,430
Tuna, Bluefin					38	107,187	346,991	61,194	36,889	2,795	45		555,139
Tuna, Bonito	15,053	22,028	28,166	34,889	55,307	129,279	84,672	141,071	82,916	278,390	285,207	78,238	1,235,216
Tuna, Skipjack	277,476	116,480	247,740	541,733	566,432	2,261,090	3,011,502	5,545,656	7,853,078	6,820,942	2,015,105	954,041	30,211,275
Tuna, Yellowfin	3,753,150	4,115,750	4,912,182	5,907,551	6,605,227	5,164,407	7,829,362	8,803,256	4,632,641	2,825,579	2,612,426	8,211,633	65,373,204
Whitefish, Ocean	1,837	1,865		884				315	248	3,240	5,728	6,828	20,945
Yellowtail	67,163	213,492	133,475	451,833	282,490	460,629	475,996	1,115,390	640,388	386,089	379,702	121,476	4,728,123
Crustacean:													
Lobster, Spiny	207,113	226,177	196,024							8,670	111,383	185,604	934,971
Total pounds	4,470,847	4,885,337	5,635,890	7,045,299	7,721,464	8,362,573	11,940,169	15,879,784	13,477,849	10,528,738	5,571,151	9,676,921	105,196,022

COMMERCIAL FISH LANDINGS IN SAN DIEGO REGION DURING 1937—Continued

Shipments from South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cabrilla			7,496	300									7,796
Sea-bass, Totuava			19,640	8,685									28,325
Total pounds			27,136	8,985									36,121
Grand total	4,756,093	9,949,770	10,102,226	7,378,834	9,359,127	9,818,556	13,631,637	16,244,591	15,215,148	10,848,700	5,837,370	10,134,481	123,276,533

ORIGIN OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1938

Species	California	North of State Boundary	South of International Boundary	Japan	Total pounds
chovy	735,144				735,144
rracuda	1,260,790		1,269,022		2,529,812
bezone	5,425				5,425
brilla			217,191		217,191
rp	38,896				38,896
tfish	312,309				312,309
rbina, Mexican			138,536		138,536
ltus, Pacific	645,018	986			646,004
l	68				68
under, Starry	542,604	208			542,812
ring Fish	62,857				62,857
ouper			67,958		67,958
ke	36,428				36,428
libut, California	838,566		255,782		1,094,348
libut, Northern	405,616	175			405,791
rdhead	12,946				12,946
rring, Pacific	504,884				504,884
ngfish	4,3,195		14		493,209
ackerel, Horse	4,133,918				4,133,918
ackerel, Pacific	79,846,761		1,254		79,848,015
ackerel, Spanish			12,294		12,294
ullet	3,806				3,806
rch	183,421				183,421
ce	985				985
mpano, California	1,203				1,203
tfish	9,355				9,355
ck Bass	255,627		30,460		286,087
ckfish	3,467,823	524	168,790		3,637,137
olefish	415,836				415,836
mon	3,839,166	131			3,839,297
od Dab	638,628	700			639,328
rdine	935,611,403		86		935,611,489
lpin	155,280		106		155,386
a-bass, Black	34,848		372,878		407,726
a-bass, Short-fin	2,259				2,259
a-bass, Totuava			2,767,408		2,767,408
a-bass, White	269,987		356,660		626,647
a-trout, California	566				566
ad	1,338,727				1,338,727
ark	7,492,299	32	12,051		7,504,382
epshead	61,107		10,924		72,031
ate	528,138		135		528,273
elt	566,922		939		567,861
le	7,706,193	31,454			7,737,647
lit-tail	11,127				11,127
cker	462				462
rdfish, Broadbill	320,534		401,944		722,478
mcod	3,040				3,040
na, Albacore	4,789,880	7,702,795	29,919	1,052,041	13,574,635
na, Bluefin	16,512,262		1,215,769		17,728,031
na, Bonito	4,684,570		3,155,423		7,839,993
na, Oriental				4,328	4,328
na, Skipjack	2,816		22,650,815	3,499,343	26,152,974
na, Yellowfin	10,566		78,277,578	74,861	78,363,005
rbot	85,896				85,896
itebait	106,724				106,724
tefish, Ocean	24,129		43,883		68,012
llowtail	246,238		6,566,080		6,812,318
scellaneous Fish	284,279	213	1,049		285,541
ustacean:					
Crab	3,868,664	3,496			3,872,160
Crab, Rock	3,847				3,847
Lobster, Spiny	308,378		889,595		1,197,973
Shrimp	1,851,211		4,932		1,856,143
ollusk:					
Abalone	2,121,468				2,121,468
Clam, Cockle	23,831				23,831
Clam, Gaper	4,074				4,074
Clam, Pismo	214,571				214,571
Clam, Razor	471				471
Clam, Soft-shell	87,219				87,219
Clam, Washington	23,086				23,086
Mussel	150				150
Octopus	32,632				32,632
Oyster, Eastern	280,742				280,742
Oyster, Japanese	1,207,421				1,207,421
Oyster, Native	32,161				32,161
Squid	1,599,164		155		1,599,319
Total pounds	1,091,200,617	7,740,714	118,919,630	4,630,573	1,222,491,534

REGION OF LANDING OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1938

Species	Del Norte and Eureka Region	Sacramento Region	San Francisco Region	Monterey Region	Santa Barbara Region	Los Angeles Region	San Diego Region	Total pounds
Anchovy			251,750	34,135		449,259		735,144
Barracuda					105,218	1,567,355	857,239	2,529,812
Cabezone	211		1,569	3,546	99			5,425
Cabrilla						147,657	69,534	217,191
Carp		36,985		1,381		530		38,896
Catfish		312,245		50		14		312,309
Corbina, Mexican						138,536		138,536
Cultus, Pacific	384,932		173,898	85,271	615	1,265	23	646,004
Eel						68		68
Flounder, Starry	275,743		251,683	15,092	294			542,812
Flying Fish						62,857		62,857
Grouper						21,527	46,431	67,958
Hake	1,740		18,015	16,350		323		36,428
Halibut, California	3,103		14,533	39,586	366,730	243,224	422,172	1,094,348
Halibut, Northern	405,466		290	35				405,791
Hardhead		12,946						12,946
Herring, Pacific	5,125		495,621	767	42		3,329	504,884
Kingfish			6,213	146,826	416	339,098	656	493,209
Mackerel, Horse				98,595	399	3,953,654	81,270	4,133,918
Mackerel, Pacific			1,013	1,482,258	35,743	73,972,003	4,356,998	79,848,015
Mackerel, Spanish						7,038	5,256	12,294
Mullet						331	3,475	3,806
Perch	8,909		69,276	15,748	9,565	79,232	691	183,421
Pike		985						985
Pompano, California						631	572	1,203
Ratfish				3,917	5,420	18		9,355
Rock Bass				14	28,838	110,553	146,682	286,087
Rockfish	547,603		558,839	1,849,065	160,398	286,474	234,758	3,637,137
Sablefish	217,369		8,507	38,480	14	151,466		415,836
Salmon	1,853,715	1,668,376	117,549	199,474	183			3,839,297
Sand Dab	229,205		358,466	45,469	7	6,181		639,328
Sardine		64,136,600	294,716,747	311,385,696	1,116	259,858,041	5,512,989	935,611,489
Sculpin					851	93,276	61,259	155,386
Sea-bass, Black					13,648	235,372	158,706	407,726
Sea-bass, Short-fin							2,259	2,259
Sea-bass, Totuava						2,696,637	70,771	2,767,408
Sea-bass, White			11,071	23,863	93,634	140,183	357,896	626,647
Sea-trout, California	566							566
Shad		1,338,722		5				1,338,727
Shark	140,440	2,270,328	2,048,466	1,765,845	1,014,564	202,815	61,924	7,504,382
Sheepshead					6,218	52,922	12,891	72,031

Skate	59,962		329,385	92,550	35,828	9,718	800	528,273
Smelt	13,223		235,915	92,800	41,453	178,712	5,758	567,861
Sole	3,883,269		3,192,731	452,859	204,706	4,019	63	7,737,647
Split-tail		11,127						11,127
Sucker		462						462
Swordfish, Broadbill					90,686	214,428	417,364	722,478
Tomcod	2,165		875					3,040
Tuna, Albacore	22,270		7,017	2,591,376	244,489	9,766,440	943,043	13,574,635
Tuna, Bluefin					9,820	15,059,275	2,658,936	17,728,031
Tuna, Bonito				11	26,772	5,622,495	2,190,715	7,839,993
Tuna, Oriental						4,328		4,328
Tuna, Skipjack						11,282,662	14,870,312	26,152,974
Tuna, Yellowfin						19,591,695	58,771,310	78,363,005
Turbot	935		76,075	8,875		11		85,896
Whitebait	96,118		8,060	2,516				106,724
Whitefish, Ocean					7,790	18,046	42,176	68,012
Yellowtail						2,344,505	4,467,813	6,812,318
Miscellaneous Fish	85,363	10	77,030	8,951	6,611	107,137	409	285,541
Crustacean:								
Crab	534,532		3,169,658	167,970				3,872,160
Crab, Rock					10	3,837		3,847
Lobster, Spiny					109,860	143,342	944,771	1,197,973
Shrimp			1,847,926	3,285		4,932		1,856,143
Mollusk:								
Abalone				1,203,950	900,908	7,610		2,121,468
Clam, Cockle			414	7		23,410		23,831
Clam, Gaper			3,274	800				4,074
Clam, Pismo				20,110	194,461			214,571
Clam, Razor	471							471
Clam, Soft-shell	534		86,685					87,219
Clam, Washington	19,996		3,090					23,086
Mussel				150				150
Octopus	1,963		6,181	24,423		65		32,632
Oyster, Eastern	28,600		251,142					280,742
Oyster, Japanese			1,175,971	8,000	23,450			1,207,421
Oyster, Native	145		32,016					32,161
Squid				1,472,003		122,420	4,896	1,599,319
Total pounds	8,824,733	69,789,086	303,606,981	323,402,104	3,749,856	409,332,627	97,786,147	1,222,491,534

MONTHLY COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1938

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy	50,769	2,902	4,407	41,979	135,062	77,489	3,250	18,755	35,038	118,500	49,750	197,243	735,144
Barracuda	219,334	163,037	160,516	103,332	220,621	317,958	255,804	203,853	227,608	256,677	195,249	155,233	2,529,812
Cabezone	247	136	335	760	750	705	491	73	159	415	773	581	5,425
Cabrilla	42,009	14,799	7,533	26,555	26,401	22,196				7,879	22,943	46,876	217,191
Carp	862	1,441	7,049	23,815	799	416		115	250	861	1,531	1,757	38,896
Catfish	15,522	8,835	24,076	42,657	3,882	5,650	3,462	3,183	58,783	58,248	56,857	31,154	312,309
Corbina, Mexican	8,587	11,521	22,604	76,648	1,897					109	4,007	12,763	138,536
Cultus, Pacific	46,784	35,618	56,020	50,898	27,661	83,702	89,116	67,606	55,150	53,912	45,384	34,153	646,004
Eel				32	8	10		18					68
Flounder, Starry	13,267	27,820	36,497	56,883	11,959	48,713	174,802	44,615	30,028	38,723	49,784	9,716	542,812
Flying Fish				788	32,846	13,245	5,495	6,867	3,436	180			62,857
Grouper	3,759	2,168	1,455	11,029	1,549	3,950	987			7,054	6,222	29,785	67,958
Hake	1,440	2,900	150	763	8,900	18,300	150	2,310	715		200	600	36,428
Halibut, California	121,973	112,515	106,350	98,802	52,814	78,627	67,460	125,341	136,426	89,441	58,862	45,737	1,094,348
Halibut, Northern				42,630	41,523	159,799	148,848	4,684	4,554	3,753			405,791
Hardhead	1,055	625	24	2,555						420	5,003	3,264	12,946
Herring, Pacific	250,622	150,383	5,466	370		42					20,504	77,497	504,884
Kingfish	41,774	37,108	14,799	75,086	58,428	47,555	36,228	27,259	23,444	37,566	44,887	49,035	493,209
Mackerel, Horse	2,226,119	680,730	41,500	8,915	16,357	77,862	80,890	155,542	261,151	33,985	125,090	421,707	4,133,918
Mackerel, Pacific	9,774,018	2,387,280	1,925,970	3,683	67,271	1,127,022	3,240,721	22,101,446	11,679,858	6,745,013	6,316,019	14,479,714	79,848,015
Mackerel, Spanish	3,009	1,792				822			1,237	932	2,379	2,123	12,294
Mullet			150	354	1,147	628		61			1,344	82	3,806
Perch	21,692	19,805	20,000	56,402	1,907	8,720	8,002	11,891	3,338	9,213	13,332	9,119	183,421
Pike	27	114	362	220				5	58	55	64	80	985
Pompano, California		163	7	23	42	200	63	676	6	12	4	1	1,203
Ratfish		115	3,505	250	415	1,970	260	972			1,555	313	9,355
Rock Bass	7,787	15,971	8,896	21,107	24,898	40,490	41,134	61,072	28,784	11,735	13,415	10,798	286,087
Rockfish	400,291	322,826	361,948	503,476	287,784	355,848	379,433	177,775	107,429	186,081	288,029	266,217	3,637,137
Sablefish	14,689	24,733	37,703	40,250	19,701	63,143	37,330	53,513	58,767	25,327	33,660	6,420	415,836
Salmon	2,220	1,895	11,158	221,022	178,770	442,739	685,161	559,004	1,723,248		2,160	11,911	3,839,297
Sand Dab	44,068	63,044	65,066	46,605	66,840	78,487	62,587	76,242	57,024	29,392	21,165	28,808	639,328
Sardine	102,873,441	54,808,226	14,033,308	541,023	506,790	449,558	279,638	54,235,750	142,034,432	110,759,603	193,958,458	261,071,262	935,611,489
Sculpin	8,511	6,360	9,642	27,797	19,867	14,990	10,731	13,034	8,385	15,193	11,370	9,506	155,386
Sea-bass, Black	23,171	37,359	20,005	17,725	23,900	30,112	55,982	30,359	70,996	41,489	23,650	26,674	407,726
Sea-Bass, Short-fin				34	806	1,339		80					2,259
Sea-bass, Totuava	392,306	659,265	538,349	227,996	233,407	115,270				142,002	175,151	223,662	2,767,408
Sea-bass, White	15,977	22,333	17,618	11,198	20,675	13,956	34,634	43,051	271,959	80,887	47,495	46,864	626,647
Sea-trout, California	236	330											566
Shad			13,179	620,690	704,858								1,338,727
Shark	653,982	402,279	307,276	98,193	100,329	591,503	714,508	1,525,279	1,513,145	592,970	252,013	752,407	7,504,382

Sheepshead	4,454	5,566	2,550	11,155	7,175	4,402	1,822	1,995	5,216	7,932	10,118	9,646	72,031
Skate	64,522	77,941	104,691	62,035	42,790	31,379	20,563	25,445	16,363	20,214	25,669	36,661	528,273
Smelt	31,369	42,538	65,125	72,427	64,347	46,706	38,858	39,148	34,193	50,111	42,234	40,805	567,861
Sole	610,347	482,147	466,163	799,170	526,755	750,171	698,252	866,375	737,146	722,552	552,487	526,082	7,737,647
Split-tail	717	1,974	1,748	2,431					1,153	1,124	771	1,209	11,127
Sucker	62	76	189	95					10	30			462
Swordfish, Broadbill					354	31,188	87,027	316,794	240,758	42,850	3,507		722,478
Tomcod						130	1,225		810	525		350	3,040
Tuna, Albacore	7,207	26,624		5,538	500	366,662	1,129,682	4,906,979	2,418,921	4,200,871	511,651		13,574,635
Tuna, Bluefin	141			7,430	57,298	2,925,284	7,633,714	4,701,449	2,402,701	14			17,728,031
Tuna, Bonito	740,239	597,843	102,811	2,248	67,112	377,411	613,563	1,770,745	2,626,112	872,952	51,872	17,085	7,839,993
Tuna, Oriental					4,328								4,328
Tuna, Skipjack	186,373	153,072	814,458	2,982,302	5,038,699	3,934,959	5,159,507	3,181,193	3,268,484	1,226,049	99,302	108,576	26,152,974
Tuna, Yellowfin	3,686,844	2,857,741	5,981,462	4,163,626	9,470,782	10,233,442	13,616,057	9,071,027	7,754,422	5,120,409	3,717,205	2,689,988	78,363,005
Turbot	6,819	2,101	5,381	14,025	12,007	6,504	7,484	10,235	6,309	5,749	3,324	5,958	85,896
Whitebait	4,493	12,025	12,511	19,654	11,738	27,085	16,831	1,996			155	236	106,724
Whitefish, Ocean	20,294	9,395	7,155	1,836	1,418	995	1,819	2,703	2,549	8,283	5,041	6,524	68,012
Yellowtail	104,585	59,030	221,624	118,502	181,427	239,253	1,039,545	3,435,005	1,276,757	40,686	27,394	68,510	6,812,318
Miscellaneous fish	13,695	13,596	13,232	13,925	15,523	22,031	16,477	39,875	43,863	35,222	27,780	30,322	285,541
Crustacean:													
Crab	343,892	342,542	219,104	422,660	486,210	312,110	395,122	304,762	6,972		472,916	565,870	3,872,160
Crab, Rock	862	533	57		500	775			1,068		10	42	3,847
Lobster, Spiny	230,804	258,643	173,198							112,809	159,794	262,725	1,197,973
Shrimp	62,571	16,077	43,137	72,213	121,102	286,163	453,643	340,386	214,992	83,329	90,967	71,563	1,856,143
Mollusk:													
Abalone	94,637		4,103	251,552	442,915	209,325	412,345	240,855	208,729	45,157	151,325	51,525	2,121,468
Clam, Cockle	1,611	1,733	2,145	1,838	2,006	2,536	1,872	891	3,116	2,700	1,810	1,573	23,831
Clam, Gaper	211	204	171	524	598	540	694	432	160	180	180	180	4,074
Clam, Pismo	17,449	15,249	15,766	13,505	16,770	20,181	27,114	23,761	21,546	16,587	14,956	11,696	214,571
Clam, Razor	16			10	165	280							471
Clam, Soft-shell	6,874	7,986	6,961	7,208	8,426	7,345	5,997	7,249	7,052	7,488	6,804	7,139	87,219
Clam, Washington	2,601	2,777	2,635	2,736	332	238	434	388	2,545	3,204	2,849	2,347	23,086
Mussel					150								150
Octopus	431	388	599	4,705	4,944	6,039	5,857	3,149	1,361	224	2,135	2,750	32,632
Oyster, Eastern	24,798	31,535	28,575	21,702	17,457	16,780	13,592	12,812	23,158	30,360	22,504	37,409	280,742
Oyster, Japanese	92,239	102,250	126,741	117,078	74,565	62,423	53,170	77,695	80,126	114,816	127,453	178,760	1,207,421
Oyster, Native	2,944	1,413	2,180	4,640	4,630	4,113	4,061	2,531	724	1,234	1,663	2,014	32,161
Squid	44,163	53,865	63,170	5,105	151,930	441,142	33,070	54,315	49,870	151,163	483,827	56,944	1,593,319
Total pounds	12[illegible],637,317	65,2[illegible],757	23,350,305	12,311,920	19,755,116	24,661,333	37,[illegible]53,161	109,064,751	175,352,592	132,272,456	203,478,012	282,857,991	1,222,491,534

COMMERCIAL FISH LANDINGS IN DEL NORTE AND EUREKA REGION DURING 1938

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cabezone	160	51											211
Cultus, Pacific	14,622	21,069	36,653	22,911	6,801	49,721	63,216	56,873	46,743	36,628	18,887	9,822	383,946
Flounder, Starry	277	1,013	927	4,657	1,820	31,030	173,833	28,207	22,698	10,473	400	140	275,535
Hake				460	115		150	100	715		200		1,740
Halibut, California					320	2,720	63						3,103
Halibut, Northern				42,630	41,348	159,509	148,848	4,649	4,554	3,753			405,291
Herring, Pacific	5,100	25											5,125
Perch	209	602	1	7,503	504					90			8,909
Rockfish	9,677	13,396	10,962	63,455	18,144	41,011	141,985	21,830	40,818	75,857	83,406	26,538	547,079
Sablefish	492	1,086	5,696	5,525	5,851	38,983	23,764	47,009	56,625	23,893	7,336	1,105	217,369
Salmon				139,955	50,905	393,994	619,857	387,721	261,152				1,853,584
Sand Dab	1,040		946	23,601	13,950	39,997	38,924	44,911	43,692	17,828	2,698	918	228,505
Sea-trout, California	236	330											566
Shark	2,427	248		2,035	88	238	3,699	30,929	32,586	15,929	24,178	28,051	140,408
Skate				7,035	7,620	9,680	7,853	8,557	8,068	4,309	5,310	1,560	59,992
Smelt	189	105			1,705	542	1,653	1,943	1,563	3,033	2,340	150	13,223
Sole	3,900	884	32,114	450,263	204,025	459,657	568,088	678,948	588,357	478,865	328,239	58,475	3,851,815
Tomcod						130	1,225		810				2,165
Tuna, Albacore							15,877	87	6,306				22,270
Turbot				260	280	350				45			935
Whitebait	4,177	10,623	10,554	18,306	9,048	25,343	16,080	1,951				36	96,118
Miscellaneous fish	260		1,085	7,365	6,100	12,885	11,915	6,922	12,453	12,410	11,925	1,860	85,180
Crustacean:													
Crab	28,444	19,782	18,500	36,466	73,672	43,446	143,774	135,444	6,972		1,476	23,060	531,036
Mollusk:													
Clam, Razor	16			10	165	280							471
Clam, Soft-shell	15	15	15	3	38		34	39	78	147	67	83	534
Clam, Washington	2,369	2,582	2,412	2,451					2,257	3,132	2,680	2,113	19,996
Octopus	28	207	157	1,181	123	4	77				106	80	1,963
Oyster, Eastern					550				2,556	7,845	9,288	9,361	29,600
Oyster, Native											145		145
Total pounds	73,638	72,018	120,022	836,076	443,172	1,309,580	1,980,915	1,456,120	1,139,003	694,237	498,681	163,352	8,786,814

Fishing Boat Landings from Waters North of State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cultus, Pacific					150			467	369				986
Flounder, Starry								73	135				208
Halibut, Northern					175								175
Rockfish									524				524
Salmon							106	25					131
Sand Dab					175			525					700
Shark									32				32
Sole					14,665			9,737	7,052				31,454
Miscellaneous fish					140			73					213
Crustacean:													
Crab					1,630		24	1,742					3,496
Total pounds					16,985		130	12,692	8,112				37,919
Grand total	73,638	72,018	120,022	836,076	460,157	1,303,580	1,981,045	1,468,812	1,147,115	694,237	498,681	163,352	8,824,733

COMMERCIAL FISH LANDINGS IN SACRAMENTO REGION DURING 1938

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Carp	862	1,441	5,714	23,769	799	416		115	250	571	1,291	1,757	36,985
Catfish	15,522	8,835	24,076	42,593	3,882	5,650	3,462	3,183	58,783	58,248	56,857	31,154	312,245
Hardhead	1,055	625	24	2,555						420	5,003	3,264	12,946
Pike	27	114	362	220				5	58	55	64	80	985
Salmon	2,229	1,017	5,324	12,160	33,689	9,394		160,778	1,429,714		2,160	11,911	1,668,376
Sardine	10,579,300								14,814,600	8,401,600	10,790,000	19,551,400	64,136,900
Shad			13,179	620,685	704,858								1,338,722
Shark	4,241	188,604	189,591				13,564	684,245	1,190,083				2,270,328
Split-tail	717	1,974	1,748	2,431					1,153	1,124	771	1,209	11,127
Sucker	62	76	189	95					10	30			462
Miscellaneous Fish											10		10
Total pounds	10,604,015	202,686	240,207	704,508	743,228	15,460	17,026	848,326	17,494,651	8,462,048	10,856,156	19,600,775	69,789,086

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy				16,200	129,400	73,850	1,400		900		30,000		251,750
Cabezone			215	400	600	32	322						1,569
Cultus, Pacific	18,700	11,413	15,325	21,506	15,090	25,483	21,336	6,584	5,820	16,038	11,893	4,710	173,898
Flounder, Starry	12,491	26,419	32,772	50,255	9,850	16,138	895	16,285	6,560	27,675	46,442	5,901	251,683
Hake	1,440	2,900	150	150	6,665	3,900		2,210				600	18,015
Halibut, California	385	1,257	398	2,430	207	7,006	859	184	320	20	219	1,248	14,533
Halibut, Northern						290							290
Herring, Pacific	245,522	149,961	5,466								17,225	77,447	495,621
Kingfish			195		2,824	2,494	84	353	20	33	175	35	6,213
Mackerel, Pacific	1,013												1,013
Perch	7,267	9,894	10,000	21,360			2,594	3,656	1,738	4,503	4,520	3,744	69,276
Rockfish	79,583	51,679	109,052	67,419	30,157	36,088	43,181	28,435	11,520	39,486	30,952	31,287	558,839
Sablefish			2,223	6	82	1,898	738	1,038	1,272	886	249	115	8,507
Salmon		878	5,745		4,374	15,342	48,348	10,480	32,382				117,549
Sand Dab	42,020	62,392	57,658	8,930	50,939	24,980	22,144	24,760	12,343	10,982	15,646	25,672	358,466
Sardine	29,990,502	55,600			88,500	102,200	32,167	6,752,581	69,303,524	43,699,166	43,903,397	100,789,110	294,716,747
Sea-bass, White						28		568	7,517	2,863	68	27	11,071
Shark	555,734	132,659	44,092	61,007	2,670	8,104	7,564	5,414	7,859	544,911	129,474	548,978	2,048,466
Skate	55,501	61,168	77,863	26,950	20,770	8,370	4,950	12,010	7,005	10,863	14,311	29,624	329,385
Smelt	11,980	25,003	55,175	37,428	29,147	16,896	13,481	17,343	4,016	9,649	8,043	7,754	235,915
Sole	586,238	451,103	351,371	141,804	241,858	207,697	114,355	145,262	112,205	217,887	182,448	440,503	3,192,731
Tomcod										525		350	875
Tuna, Albacore								925	3,739	2,353			7,017
Turbot	6,321	1,005	3,381	11,401	10,962	6,144	7,484	10,235	5,609	5,344	2,786	5,403	76,075
Whitebait	316	1,402	1,864	1,268	2,279	210	751						8,090
Miscellaneous Fish	12,393	12,493	10,346	3,370	6,711	1,757	1,190	1,370	3,322	7,805	6,986	9,287	77,030
Crustacean:													
Crab	313,576	319,228	197,068	383,696	403,688	261,796	249,822	167,454			452,240	421,090	3,169,658
Shrimp	61,066	15,852	43,137	72,009	117,810	286,163	453,248	340,074	214,954	83,173	89,889	70,551	1,847,926
Mollusk:													
Clam, Cockle	44	38	20	37	20	23	41	40	15	18	91	27	414
Clam, Gaper	211	204	151	424	518	360	474	232	160	180	180	180	3,274
Clam, Soft-shell	6,859	7,971	6,946	7,295	8,388	7,945	5,963	7,210	6,974	7,341	6,737	7,056	86,685
Clam, Washington	232	195	223	285	332	238	434	388	288	72	169	234	3,090
Octopus	138	119	246	603	1,421	1,285	1,551	648	59	82	29		6,181
Oyster, Eastern	24,798	31,595	28,575	21,702	16,907	16,780	13,592	12,812	20,602	22,515	13,216	28,048	251,142
Oyster, Japanese	91,769	101,048	116,279	115,426	73,876	61,717	51,642	75,643	77,986	111,010	124,425	175,150	1,175,971
Oyster, Native	2,944	1,418	2,180	4,640	4,639	4,113	4,061	2,531	724	1,234	1,518	2,014	32,016
Total pounds	32,129,043	1,534,894	1,178,116	1,078,001	1,280,684	1,199,327	1,104,671	7,646,725	69,849,433	44,826,614	45,093,328	102,686,145	309,606,981

COMMERCIAL FISH LANDINGS IN MONTEREY REGION DURING 1938

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy			2,650	23,440	2,850	200	1,700	1,850	1,445				34,135
Cabezone	51	85	100	317	150	673	169	73	159	415	773	581	3,546
Carp			1,335	46									1,381
Catfish				50									50
Cultus, Pacific	13,296	3,136	4,023	6,164	5,430	8,412	4,495	3,642	2,154	1,227	13,716	19,576	85,271
Flounder, Starry	499	388	2,798	1,971	289	1,485	58	50	357	580	2,942	3,675	15,092
Hake					1,950	14,400							16,350
Halibut, California	2,231	4,058	4,193	619	512	4,592	8,463	9,998	1,984	349	703	1,884	39,586
Halibut, Northern								35					35
Herring, Pacific		397		370									767
Kingfish	11,747	4,605	5,440	14,731	10,613	10,705	10,699	13,044	8,227	20,333	16,691	19,991	146,826
Mackerel, Horse	167	2,965		8,732	8,572	12,555	9,259	2,762	11,178	27,323	11,847	3,235	98,595
Mackerel, Pacific	115,498	93,376	17,203	1,143	50,478	63,353	70,181	676,152	206,588	105,027	47,329	29,930	1,482,258
Perch	361	1,333	969	8,321			811	360	245	200	90	3,058	15,748
Ratfish		115	3,505	250				47					3,917
Rock Bass										14			14
Rockfish	249,239	186,842	174,039	245,922	186,523	231,760	148,585	97,934	31,917	29,547	122,419	144,338	1,849,065
Sablefish		90	121	3,035	5,840	12,805	11,212	4,532	335		200	310	38,480
Salmon			89	68,907	89,764	23,864	16,850						199,474
Sand Dab													
Sardine	291	91	5,655	13,420	1,517	12,654	1,179	5,522	595	277	2,462	1,806	45,469
Sea-bass, White	16,923,741	2,097,643	27,450	201,118	328,835	338,465	234,495	47,506,811	57,716,292	58,231,118	63,621,176	64,158,552	311,385,696
Shad	2,734	129						49	16,323	409	3,908	311	23,863
Shark				5									5
Skate	60,436	37,597	25,172	7,264	2,182	94,775	356,472	674,704	238,401	11,320	86,864	170,658	1,765,845
Smelt	5,274	12,224	21,411	23,653	9,537	8,809	3,948	1,607	453	1,360	2,493	1,781	92,550
Sole	3,480	781	345	221	1,560	11,111	12,584	7,125	12,182	12,255	12,828	18,328	92,800
Tuna, Albacore	12,011	18,837	62,818	170,779	40,109	68,824	5,155	18,984	5,248	5,209	28,953	15,932	452,859
Tuna, Bonito							718	295,597	1,358,192	934,618	2,251		2,591,376
Turbot									11				11
Whitebait	491	1,096	2,000	2,364	765	10			700	360	534	555	8,875
Miscellaneous Fish			93	80	411	1,532		45			155	200	2,516
		30	1,320	2,025	342	2,451	1,419	225	540	144	455		8,951

Crustacean:													
Crab	1,872	3,532	3,536	2,498	7,170	6,868	1,502	72			19,200	121,720	167,970
Shrimp	80			204	10		395	312	38	156	1,078	1,012	3,285
Mollusk:													
Abalone	46,350			146,875	251,500	124,775	266,850	145,900	139,700	7,550	56,650	17,800	1,203,950
Clam, Cockle	7												7
Clam, Gaper			20	100	80	180	220	200					800
Clam, Pismo	3,458	2,039	1,800	983					4,794	3,533	2,596	907	20,110
Mussel					150								150
Octopus	262	50	194	2,921	3,399	4,800	4,229	2,501	1,302	136	1,988	2,641	24,423
Oyster, Japanese			8,000										8,000
Squid	43,530			5,105	151,080	440,987	38,070	54,915	49,870	151,088	489,368	47,990	1,472,003
Total pounds	17,497,106	2,477,439	376,279	963,633	1,161,618	1,501,045	1,209,718	49,525,048	59,809,230	59,544,548	64,549,669	64,786,771	323,402,104

COMMERCIAL FISH LANDINGS IN SANTA BARBARA REGION DURING 1938

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda					813	816	952	84	6,671	11,020	38,662		59,018
Cabezone	36		20	43									99
Cultus, Pacific	45			196	190	68	60	22	23	11			615
Flounder, Starry							16		278				294
Halibut, California	30,138	22,018	30,976	24,594	21,096	27,415	28,395	39,723	45,611	39,214	35,572	21,978	366,730
Herring, Pacific						42							42
Kingfish		59	50	32	55			73	26		100	21	416
Mackerel, Horse										399			399
Mackerel, Pacific	7,358	126	140		159		48	13,613	3,533	5,469	2,346	2,951	35,743
Perch		10		2,628			2,392	3,995	465	54	21		9,565
Ratfish					415	1,970	260	925			1,555	295	5,420
Rock Bass	1,128	9,875	719	2,690	1,046	2,218	1,912	1,552	491	818	1,212	5,177	28,838
Rockfish	22,866	32,351	6,883	32,106	13,818	9,613	8,908	7,161	1,828	994	6,527	17,343	160,398
Sablefish		10			4								14
Salmon					38	145							183
Sand Dab									7				7
Sardine	16				445	43	612						1,116
Sculpin	124	291		81	21		25	175				134	851
Sea-bass, Black	845	1,833	1,825	509	252	1,115	1,836	535	1,921	2,488	169	320	13,648
Sea-bass, White	5,815	1,560	3,405	2,324	953	629	15	183	29,505	13,146	19,654	16,445	93,634
Shark	23,222	31,058	31,810	11,661	51,569	428,494	295,582	104,695	22,091	8,112	4,357	1,913	1,014,564
Sheepshead	169	1,448	1,361	30	262	287	189	44		566	18	1,844	6,218
Skate	2,613	3,456	3,567	3,209	3,616	3,056	3,700	2,059	525	3,550	3,232	3,245	35,828
Smelt	818	1,236	2,742	12,712	14,509	1,328	2,511	1,812	1,376	1,755	102	552	41,453
Sole	8,106	10,877	19,445	35,812	25,636	12,599	10,383	13,366	24,095	20,521	12,822	11,044	204,706
Swordfish, Broadbill						2,009	3,650	22,341	47,985	14,701			90,686
Tuna, Albacore							1,811	18,600	83,903	138,764	1,411		244,489
Tuna, Bluefin								9,647	173				9,820
Tuna, Bonito	3,526	3,888	37					1,604	458	10,906	5,840	513	26,772
Whitefish, Ocean	3,742	918	419	64	77	21	223	179		743	220	1,184	7,790
Miscellaneous Fish	399	791	348	365	379	336	142	369	438	789	1,188	1,067	6,611
Crustacean:													
Crab, Rock			10										10
Lobster, Spiny	23,134	14,792	5,037							38,484	13,940	14,473	109,860
Mollusk:													
Abalone	48,237		3,867	102,975	189,775	84,100	145,495	103,005	68,217	36,812	94,225	33,200	909,908
Clam, Pismo	13,982	13,210	13,966	12,522	16,770	20,181	27,114	23,761	16,752	13,054	12,360	10,789	194,461
Oyster, Japanese	470	1,202	2,462	1,652	789	711	1,528	2,052	2,140	3,806	3,028	3,610	23,450
Total pounds	196,789	151,009	129,089	246,205	342,687	597,196	537,759	371,575	358,512	366,176	258,561	148,098	3,703,656

Fishing Boat Landings from Waters South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda												46,200	46,200
Total pounds												46,200	46,200
Grand total	196,789	151,009	129,089	246,205	342,687	597,196	537,759	371,575	358,512	366,176	258,561	194,298	3,749,856

COMMERCIAL FISH LANDINGS IN LOS ANGELES REGION DURING 1938

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy	50,769	2,902	1,757	2,339	2,812	3,439	150	16,905	32,693	118,500	19,750	197,243	449,259
Barracuda		3,270	4,813	88,188	149,438	218,165	174,951	134,392	43,739	21,398	404		838,758
Carp										290	240		530
Catfish				14									14
Cultus, Pacific	121		19	121		18	9	18	41	8	888	22	1,265
Eel				32	8	10		18					68
Flying Fish				788	32,846	13,245	5,495	6,867	3,436	180			62,857
Hake				153	170								323
Halibut, California	24,566	39,282	33,939	40,099	16,025	26,975	8,426	11,721	8,810	13,623	7,764	8,518	239,748
Kingfish	30,027	32,444	9,072	60,323	44,922	34,256	25,445	13,763	15,126	17,162	27,590	28,968	339,098
Mackerel, Horse	2,225,952	677,765	41,500	183	60	3,401	60,062	156,780	249,973	6,263	113,243	418,472	3,953,654
Mackerel, Pacific	9,404,563	2,287,758	1,908,627	2,013	4,259	324,847	2,771,995	20,648,166	11,150,357	6,408,021	5,527,231	13,533,911	73,971,748
Mullet			190	84				25				32	331
Perch	13,855	7,966	9,030	16,590	1,403	8,720	1,514	3,880	890	4,366	8,701	2,317	79232
Pompano, California		163	7	29	42	200	63	104	6	12	4	1	631
Ratfish												18	18
Rock Bass	1,577	2,525	1,311	6,780	15,442	17,740	17,975	12,746	6,423	9,127	8,883	2,747	103,276
Rockfish	29,872	26,322	42,364	45,760	22,192	13,285	24,102	9,935	7,449	12,079	16,304	28,215	277,879
Sablefish	14,197	23,547	29,663	31,680	7,924	9,457	2,216	934	535	548	25,875	4,890	151,466
Sand Dab	717	561	807	654	259	856	340	524	387	305	359	412	6,181
Sardine	45,379,882	52,440,068	13,855,613	227,870	20,523	4,415	10,435	33,592	198,529	426,605	70,781,869	76,478,640	259,858,041
Sculpin	8,159	5,719	4,312	5,043	12,568	14,379	9,501	10,659	6,424	7,060	5,008	4,444	93,276
Sea-bass, Black	62	56	408	2,148	5,967	1,740	792	3,165	1,012	703	1,320		17,373
Sea-bass, White	1,770	2,419	363	4,177	10,703	5,977	3,575	12,835	26,803	5,281	506	18,158	92,567
Shark	3,248	7,831	10,133	12,696	36,638	49,360	26,108	21,635	14,569	10,833	6,336	2,064	201,451
Sheepshead	1,575	2,051	306	10,729	6,746	4,105	1,633	1,951	2,868	4,577	9,379	6,210	52,130
Skate	982	1,093	1,525	1,120	1,092	1,464	112	1,212	312	132	323	351	9,718
Smelt	13,883	15,401	6,863	22,066	17,246	16,297	8,629	10,880	13,976	21,159	18,291	14,021	178,712
Sole	92	446	415	504	422	1,379	271	78	189	70	25	128	4,019
Swordfish, Broadbill					354	13,968	43,631	56,437	44,173	14,914	2,503		175,980
Tuna, Albacore							590,518	198,237	428,285	337,095	83,013		1,637,148
Tuna, Bluefin	141			38	2,306	2,307,250	6,259,174	4,201,942	1,761,039	14			14,531,904
Tuna, Bonito	457,256	268,421	57,223	454	1,480	13,886	187,167	245,088	1,038,059	677,320	10,989	13,227	2,970,570
Tuna, Skipjack								27		27			54
Tuna, Yellowfin							329	434	2,663				3,426
Turbot	7										4		11
Whitefish, Ocean	2,808	2,010	3,968	534	839	629	633	231	140	295	927	2,425	15,439
Yellowtail	15		1,126	4,111	7,885	6,008	12,893	9,032	14,241	302			55,613
Miscellaneous Fish	643	282	133	800	1,771	4,602	1,811	30,916	26,486	13,963	7,216	17,819	106,442

Crustacean:													
Crab, Rock	862	533	47		500	775			1,068		10	42	3,837
Lobster, Spiny	23,461	12,331	5,537							43,978	25,437	32,598	143,342
Mollusk:													
Abalone	50		236	1,702	1,640	450		950	812	795	450	525	7,610
Clam, Cockle	1,560	1,695	2,125	1,801	1,986	2,513	1,831	851	3,101	2,682	1,719	1,546	23,410
Octopus	3	12	2		1					6	12	29	65
Squid	345	53,865	63,170							75	75	4,890	122,420
Total pounds	57,693,020	55,918,738	16,096,604	591,623	428,469	3,123,811	10,251,786	25,856,930	15,104,614	8,179,768	76,712,648	90,822,883	360,780,894

Fishing Boat Landings from Waters North of State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore										1,501,382	35,998		1,537,380
Total pounds										1,501,382	35,998		1,537,380

COMMERCIAL FISH LANDINGS IN LOS ANGELES REGION DURING 1938—Continued

Fishing Boat Landings from Waters South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	185,295	122,023	67,031	1,280				2,420	30,040	118,119	113,077	88,996	728,281
Cabrilla	18,695	7,251	4,860			9,088					21,781	22,322	83,997
Corbina, Mexican												721	721
Grouper	2,168	1,019	233							261	4,877	12,969	21,527
Halibut, California	7,795	33							354	248	46		8,476
Mackerel, Pacific												255	255
Mackerel, Spanish	810	1,792				155				932	1,547	1,802	7,038
Rock Bass	1,492	989	1,250	265		345	100	80		478	686	1,592	7,277
Rockfish									476	3,901	4,218		8,595
Sea-bass, Black	15,390	12,956	8,528	4,037	8,544	14,770	40,260	24,739	58,144	23,703	4,112	2,639	217,822
Sea-bass, White	722	1,526				32		66	22,811	22,196	223	40	47,616
Shark								85	1,050	229			1,364
Sheepshead										545		247	792
Swordfish, Broadbill								22,754	15,294	400			38,448
Tuna, Bluefin					72			165,330	361,969				527,371
Tuna, Bonito	51	1,635	100		16		544	1,373,668	1,121,247	142,909	11,755		2,651,925
Tuna, Skipjack	152,125	8,215	202,831	240,488	825,383	935,517	1,753,724	1,576,957	1,162,396	836,789	88,840		7,783,265
Tuna, Yellowfin	772,465	681,882	1,377,849	767,803	2,524,675	1,859,193	4,403,935	3,540,063	2,201,214	598,987	185,839	599,503	19,513,408
Whitefish, Ocean		156		230		200	60			862	1,022	77	2,607
Yellowtail	1,375	1,766	1,782	194	341	1,669	131,025	1,759,473	378,831	2,344	8,575	1,517	2,288,892
Miscellaneous Fish									350	111		234	695
Total pounds	1,158,383	841,243	1,664,464	1,014,297	3,359,031	2,820,969	6,329,648	8,465,635	5,354,176	1,753,014	446,598	732,914	33,940,372

Shipments from North of State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore	7,207	26,624		5,538	500		4,435	3,899,134	508,620	937,751	150,062		5,539,871
Total pounds	7,207	26,624		5,538	500		4,435	3,899,134	508,620	937,751	150,062		5,539,871

Shipments from South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda			316										316
Cabrilla			2,673	26,555	22,101	6,421				432	1,162	4,316	63,660
Corbina, Mexican	8,587	11,921	22,604	76,648	1,897					109	4,007	12,042	137,815
Sea-bass, Black			177										177
Sea-bass, Totuava	392,306	651,949	521,543	220,609	276,611	113,089				129,214	175,151	216,165	2,696,637
Crustacean:													
Shrimp	1,425	225			3,282								4,932
Total pounds	402,318	664,095	547,313	323,812	303,891	119,510				129,755	180,320	232,523	2,903,537

Shipments from Japan

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore						366,662	386,357	299,022					1,052,041
Tuna, Oriental					4,328								4,328
Tuna, Skipjack		106,362	66,939	698,188	1,102,028	1,227,115	121,822	74,188				102,701	3,499,343
Tuna, Yellowfin						49,924		24,937					74,861
Total pounds		106,362	66,939	698,188	1,106,356	1,643,701	508,179	398,147				102,701	4,630,573
Grand total	59,260,928	57,557,062	18,375,320	2,633,458	5,198,247	7,707,991	17,094,048	38,619,846	20,967,410	12,501,670	77,525,626	91,891,021	409,332,627

COMMERCIAL FISH LANDINGS IN SAN DIEGO REGION DURING 1938

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	60	148	74	5,183	56,970	95,817	123,173	55,591	24,639	967	8	384	363,014
Cultus, Pacific												23	23
Halibut, California	27,476	45,645	31,746	31,005	8,603	2,394	1,417	6,633	3,378	384	7,280	8,905	174,866
Herring, Pacific											3,279	50	3,329
Kingfish			42			100		66	45	38	331	20	642
Mackerel, Horse					7,765	61,936	11,569						81,270
Mackerel, Pacific	245,586	20		527	12,375	738,732	398,497	763,515	319,380	225,984	739,092	912,291	4,355,999
Mullet				270	1,147	628		36			1,344	50	3,475
Perch							691						691
Pompano, California								572					572
Rock Bass	842	400	3,046	8,737	6,169	15,740	19,562	45,800	20,001	720	2,201	281	123,499
Rockfish	4,701	845	3,243	7,709	13,866	19,155	5,014	7,735	3,306	612	1,591	6,786	74,563
Sardine		214,915	150,245	112,035	68,487	4,435	1,929	2,766	1,487	1,028	4,862,016	93,560	5,512,903
Sculpin	228	350	5,330	22,656	7,189	611	1,205	2,200	1,961	8,133	6,362	4,928	61,153
Sea-bass, Black	42	216		258	582	92	230	401	1,460	59	255	232	3,827
Sea-bass, Short-fin				34	806	1,339		80					2,259
Sea-bass, White	2,441	2,103	1,606	404	2,766	6,257	19,535	2,761	4,092	902	4,262	1,723	48,852
Shark	3,921	4,282	6,253	3,325	6,421	1,922	11,519	4,072	6,472	1,636	745	669	51,237
Sheepshead	446	133	195	98	167	10			936	383	262	129	2,759
Skate	152		275	68	70							100	665
Smelt	494				180	532			753	2,260	600		4,819
Sole				8	40	15							63
Swordfish, Broadbill						14,863	26,837	9,455	1,958	755			53,868
Tuna, Albacore							124,866	32,843	11,178	47,120	71,573		287,580
Tuna, Bluefin				309	53,181	542,977	909,119	186,726	278,226				1,970,538
Tuna, Bonito	240,398	298,821	27,989	160	63,970	362,963	413,264	72,158	187,456	3,690	15,360	988	1,687,217
Tuna, Skipjack										2,762			2,762
Tuna, Yellowfin							125	62	5,619	1,277		57	7,140
Whitefish, Ocean	135	30	90					300	163	182			900
Yellowtail	15	578	491	24,401	30,226	56,627	33,961	18,589	20,251	273	5,178	35	190,625
Miscellaneous Fish												55	55
Crustacean:													
Lobster, Spiny	7,704	504	252							26,326	10,891	9,499	55,176
Mollusk:													
Squid	293										384	4,064	4,741
Total pounds	534,934	568,990	230,877	217,187	340,980	1,927,145	2,102,513	1,212,361	892,761	325,491	5,733,014	1,044,829	15,131,082

Fishing Boat Landings from Waters North of State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore										290,378	167,343		457,721
Total pounds										290,378	167,343		457,721

COMMERCIAL FISH LANDINGS IN SAN DIEGO REGION DURING 1938—Continued

Fishing Boat Landings from Waters South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	33,979	37,596	88,282	15,181	13,400	3,200	728	11,366	122,519	105,173	43,098	19,703	494,225
Cabrilla	23,314	7,548			260	2,261				7,447		20,238	61,068
Grouper	1,591	1,149	1,222	11,029	1,549	3,950	987			6,793	1,345	16,816	46,431
Halibut, California	29,382	222	5,098	55	6,051	7,525	19,837	57,082	75,969	35,603	7,278	3,204	247,306
Kingfish					14								14
Mackerel, Pacific						90				512	21	376	999
Mackerel, Spanish	2,199					667			1,237		832	321	5,256
Rock Bass	2,748	2,182	2,570	2,635	2,241	4,447	1,585	894	1,869	578	433	1,001	23,183
Rockfish	4,353	11,391	15,405	41,105	3,084	4,936	7,658	4,745	9,591	23,605	22,612	11,710	160,195
Sardine										86			86
Sculpin				17	89								106
Sea-bass, Black	6,832	22,298	9,067	10,777	8,555	12,395	12,864	1,519	8,459	14,536	23,794	23,783	154,879
Sea-bass, White	2,495	14,596	12,244	4,293	6,253	1,033	11,509	26,589	164,908	36,090	18,874	10,160	309,044
Shark	753		225	205	761	8,610					59	74	10,687
Sheepshead	2,264	1,934	688	298					1,412	1,861	459	1,216	10,132
Skate			50		85								135
Smelt	525	12						45	327		30		939
Swordfish, Broadbill						348	12,909	205,807	131,348	12,080	1,004		363,496
Tuna, Albacore							5,100	23,187	1,632				29,919
Tuna, Bluefin				7,083	1,739	75,057	465,421	137,804	1,294				688,398
Tuna, Bonito	39,008	25,078	17,462	1,634	1,646	562	12,588	78,227	278,881	38,127	7,928	2,357	503,498
Tuna, Skipjack	34,248	38,495	544,688	2,043,626	3,111,288	1,772,327	3,283,961	1,530,021	2,106,088	386,471	10,462	5,875	14,867,550
Tuna, Yellowfin	2,914,379	2,175,859	4,603,613	3,395,823	6,946,107	8,324,325	9,211,668	5,505,531	5,544,926	4,520,145	3,531,366	2,090,428	58,764,170
Whitefish, Ocean	13,609	6,281	2,678	1,008	502	145	903	1,993	2,246	6,201	2,872	2,838	41,276
Yellowtail	103,180	56,686	218,225	89,796	142,975	174,949	861,666	1,647,911	863,434	37,767	13,641	66,958	4,277,188
Miscellaneous Fish					80				274				354
Crustacean:													
Lobster, Spiny	176,505	231,016	162,372							4,021	109,526	206,155	889,595
Mollusk:													
Squid						155							155
Total pounds	3,391,364	2,632,343	5,683,889	5,624,565	10,246,679	10,396,982	13,909,384	9,232,721	9,316,414	5,237,096	3,795,634	2,483,213	81,950,284

Shipments from North of State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore								139,347	17,066	11,410			167,823
Total pounds								139,347	17,066	11,410			167,823

Shipments from South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cabrilla					4,040	4,426							8,466
Sea-bass, Totuava		7,316	16,806	7,387	16,796	2,181				12,788		7,497	70,771
Total pounds		7,316	16,806	7,387	20,836	6,607				12,788		7,497	79,237
Grand total	3,926,298	3,208,649	5,931,572	5,849,139	10,608,495	12,330,734	16,011,897	10,584,429	10,226,241	5,877,163	9,695,991	3,535,539	97,786,147

ORIGIN OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1939

Species	California	North of State Boundary	South of International Boundary	Japan	Total pounds
Anchovy	2,147,901				2,147,901
Barracuda	2,969,250		1,122,804		4,092,054
Cabezone	4,023				4,023
Cabrilla			141,548		141,548
Carp	14,213				14,213
Catfish	217,036				217,036
Corbina, Mexican			43,602		43,602
Cultus, Pacific	573,059	1,450	602		575,111
Flounder, Starry	739,311				739,311
Flying Fish	20,321				20,321
Grouper			41,430		41,430
Hake	13,661				13,661
Halibut, California	746,509		269,537		1,016,046
Halibut, Northern	376,665	1,160			377,825
Hardhead	12,921				12,921
Herring, Pacific	302,242				302,242
Kingfish	542,826		75		542,901
Mackerel, Horse	3,760,155				3,760,155
Mackerel, Pacific	80,908,992		382		80,909,374
Mackerel, Spanish			16,041		16,041
Mullet	3,018				3,018
Perch	140,187				140,187
Pike	183				183
Pompano, California	3,404				3,404
Ratfish	750				750
Rock Bass	238,423		27,730		266,153
Rockfish	3,184,660	1,326	144,686		3,330,672
Sablefish	767,044				767,044
Salmon	2,730,180	28			2,730,208
Sand Dab	817,219	3,985			821,204
Sardine	1,160,793,581				1,160,793,581
Sculpin	128,500		128		128,628
Sea-bass, Black	32,964		427,979		460,943
Sea-bass, Short-fin	2,600				2,600
Sea-bass, Totuava			2,304,450		2,304,450
Sea-bass, White	806,604		187,792		994,396
Sea-trout, California	24				24
Shad	1,316,768				1,316,768
Shark	9,224,155		3,595		9,227,750
Sheepshead	58,399		12,962		71,361
Skate	336,724	130			336,854
Smelt	474,087		599		474,686
Sole	9,664,824	79,968			9,744,792
Split-tail	15,461				15,461
Sucker	53				53
Swordfish, Broadbill	328,630		265,730		594,360
Tomcod	4,675				4,675
Tuna, Albacore	8,264,109	4,078,562	4,187	4,076,376	16,423,234
Tuna, Bluefin	9,318,934	44	2,516,737		11,835,715
Tuna, Bonito	6,697,249		3,221,626		9,918,875
Tuna, Skipjack	2,718,641		27,402,250	1,066,059	31,186,950
Tuna, Yellowfin	457,405		109,960,396		110,417,801
Turbot	104,585				104,585
Whitebait	166,135				166,135
Whitefish, Ocean	24,281		19,407		43,688
Yellowtail	262,524		2,603,764		2,866,288
Miscellaneous Fish	269,902	1,175	778		271,855
Crustacean:					
Crab	5,941,961	2,544			5,944,505
Crab, Rock	3,984				3,984
Lobster, Spiny	376,928		912,968		1,289,896
Shrimp	1,180,250				1,180,250
Mollusk:					
Abalone	1,804,440				1,804,440
Clam, Cockle	20,907		2,163		23,070
Clam, Gaper	3,974				3,974
Clam, Pismo	192,694				192,694
Clam, Razor	175				175
Clam, Soft-shell	75,721				75,721
Clam, Washington	21,135				21,135
Mussel	1,800				1,800
Octopus	29,516				29,516
Oyster, Eastern	130,684				130,684
Oyster, Japanese	1,598,460				1,598,460
Oyster, Native	13,751				13,751
Scallop		300			300
Squid	1,162,056				1,162,056
Total pounds	1,325,264,403	4,170,672	151,655,948	5,142,435	1,486,233,458

REGION OF LANDING OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1939

Species	Del Norte and Eureka Region	Sacramento Region	San Francisco Region	Monterey Region	Santa Barbara Region	Los Angeles Region	San Diego Region	Total pounds
Anchovy			214,907	11,970		1,921,024		2,147,901
Barracuda					180,499	2,418,211	1,493,344	1,092,054
Cabezone			208	3,586	229			4,023
Cabrilla						118,790	22,758	141,548
Carp		14,213						14,213
Catfish		217,014				22		217,036
Corbina, Mexican						43,602		43,602
Cultus, Pacific	311,797		192,811	67,297	931	1,730	545	575,111
Flounder, Starry	242,197	370	478,092	16,295	2,264		93	739,311
Flying Fish					81	20,126	114	20,321
Grouper						20,940	20,490	41,430
Hake	3,870		9,641	150				13,661
Halibut, California	1,725		25,261	28,887	330,333	332,249	297,591	1,016,046
Halibut, Northern	377,771		21		33			377,825
Hardhead		12,921						12,921
Herring, Pacific	14,475		278,399	1,175	1,456		6,737	302,242
Kingfish			5,386	189,032	539	347,219	725	542,901
Mackerel, Horse				82,495		3,676,380	1,280	3,760,155
Mackerel, Pacific	18		95	828,433	30,083	73,654,557	6,396,188	80,909,374
Mackerel, Spanish						12,570	3,471	16,041
Mullet						97	2,921	3,018
Perch	4,875		57,995	25,933	20,366	30,773	245	140,187
Pike		183						183
Pompano, California				201		3,203		3,404
Ratfish			750					750
Rock Bass					39,401	108,798	117,954	266,153
Rockfish	754,543		388,566	1,328,520	201,039	355,768	302,236	3,330,672
Sablefish	595,693		14,757	33,918	23	122,653		767,044
Salmon	1,673,151	496,933	434,626	125,498				2,730,208
Sand Dab	219,305		512,689	84,025	7	5,178		821,204
Sardine		95,572,075	396,270,664	429,599,487	3,625	238,516,091	831,639	1,160,793,581
Sculpin					402	88,808	39,418	128,628
Sea-bass, Black				245	13,373	212,574	234,751	460,943
Sea-bass, Short-fin							2,600	2,600
Sea-bass, Totuava						2,304,450		2,304,450
Sea-bass, White			16,817	103,789	221,874	333,890	318,026	994,396
Sea-trout, California	11			13				24
Shad		1,316,295	470	3				1,316,768
Shark	38,472	1,540,195	3,091,384	1,823,882	2,490,123	209,503	34,191	9,227,750
Sheepshead					24,849	29,836	16,676	71,361
Skate	58,650		204,598	30,735	31,564	11,307		336,854
Smelt	21,735		172,313	99,231	24,657	148,970	7,780	474,686

REGION OF LANDING OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1939—Continued

Species	Del Norte and Eureka Region	Sacramento Region	San Francisco Region	Monterey Region	Santa Barbara Region	Los Angeles Region	San Diego Region	Total pounds
Sole	4,138,353		4,207,821	1,174,532	216,694	5,533	1,859	9,744,792
Split-tail		15,461						15,461
Sucker		53						53
Swordfish, Broadbill					75,080	260,726	258,554	594,360
Tomcod	3,805		870					4,675
Tuna, Albacore	2,922		462,274	4,528,822	1,561,755	9,321,849	545,612	16,423,234
Tuna, Bluefin			4,715		9,727	10,369,653	1,451,620	11,835,715
Tuna, Bonito				28	37,572	8,760,121	1,121,154	9,918,875
Tuna, Skipjack					10	14,255,904	16,931,036	31,186,950
Tuna, Yellowfin					75	36,150,712	74,267,014	110,417,801
Turbot	420		99,463	4,702				104,585
Whitebait	139,293		22,444	4,398				166,135
Whitefish, Ocean					13,516	10,644	19,528	43,688
Yellowtail						1,011,252	1,855,036	2,866,288
Miscellaneous Fish	111,625		72,364	6,186	10,201	69,904	1,575	271,855
Crustacean:								
Crab	2,004,953		3,561,416	378,136				5,944,505
Crab, Rock						3,984		3,984
Lobster, Spiny					122,238	184,526	983,132	1,289,896
Shrimp			1,175,979	4,271				1,180,250
Mollusk:								
Abalone				789,450	1,011,937	3,053		1,804,440
Clam, Cockle	2		287		20	22,761		23,070
Clam, Gaper			3,938	36				3,974
Clam, Pismo				16,330	176,364			192,694
Clam, Razor	175							175
Clam, Soft-shell	534		75,187					75,721
Clam, Washington	17,561		3,574					21,135
Mussel	1,800							1,800
Octopus	2,538		3,007	23,255	167	549		29,516
Oyster, Eastern	6,522		124,162					130,684
Oyster, Japanese			1,579,118		19,342			1,598,460
Oyster, Native	1,905		11,846					13,751
Scallop	300							300
Squid				1,097,815		62,786	1,455	1,162,056
Total pounds	10,750,996	99,185,713	413,778,915	442,512,761	6,872,449	405,543,276	107,589,348	1,486,233,458

MONTHLY COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1939

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy	17,562	6,385	99,014	68,297	34,532	15,685	11,265	12,936	167,283	829,704	385,754	499,484	2,147,901
Barracuda	141,758	230,018	487,767	560,084	416,567	507,294	309,690	329,456	278,473	352,646	272,508	205,793	4,092,054
Cabezone	73	141	901	1,632	180	198	15	338	147	27	334	37	4,023
Cabrilla	13,888	8,744	8,021		11,353	53,188	15,218	8,144			12,240	10,752	141,548
Carp	1,303	130	5,792	2,386	926	1,195	529		389	301	293	969	14,213
Catfish	15,795	4,780	26,307	38,242	5,421	5,048	5,700	4,885	35,837	29,664	27,354	18,003	217,036
Corbina, Mexican	2,634	11,116	24,528	360	98	2,068					2,798		43,602
Cultus, Pacific	17,735	22,662	104,914	55,910	51,488	32,757	52,290	58,036	54,496	50,772	54,849	19,202	575,111
Flounder, Starry	8,771	50,548	47,677	62,692	31,296	40,059	29,798	80,349	153,819	156,907	56,889	20,506	739,311
Flying Fish					2,653	4,212	3,865	5,712	3,879				20,321
Grouper	5,352	4,400	562	2,001	4,981	2,786	5,734		1,556	1,025	7,600	5,433	41,430
Hake	1,050	1,610		350		250	2,645	460	2,939	1,282	2,695	380	13,661
Halibut, California	83,865	115,425	149,576	77,042	74,993	62,323	121,203	64,914	70,485	62,011	69,764	64,445	1,016,046
Halibut, Northern	10	23		77,255	117,467	59,866	103,168	6,282	6,862	6,892			377,825
Hardhead	2,208	21	22								850	9,820	12,921
Herring, Pacific	160,835	90,015	25,896	485							4,572	20,439	302,242
Kingfish	41,284	60,125	72,662	59,970	60,158	40,349	33,780	14,070	26,333	68,179	43,773	22,218	542,901
Mackerel, Horse	2,568,616	9,877	130,790	9,341	3,730	30,374	68,589	25,149	446,195	4,484	424,241	38,769	3,760,155
Mackerel, Pacific	9,276,285	25,616	942,746	62,936	69,805	1,887,188	4,073,606	6,593,322	7,988,926	10,792,275	20,008,680	19,187,989	80,909,374
Mackerel, Spanish	5,337	1,879	2,082			121			180	80	2,825	3,537	16,041
Mullet	1,020	678	503		488	86		165	78				3,018
Perch	13,855	9,433	35,845	32,676	934	870	11,635	15,966	7,005	6,376	3,197	2,395	140,187
Pike	17	12	64		12				23		25	30	183
Pompano, California	2		289	62	65	100	13	97	405	1,083	958	330	3,404
Ratfish												750	750
Rock Bass	8,072	12,184	14,509	14,309	9,115	41,345	60,754	42,085	11,460	17,595	19,039	15,686	266,153
Rockfish	277,496	228,272	562,309	400,583	384,478	272,104	224,689	158,111	141,507	169,825	291,481	219,817	3,330,672
Sablefish	3,555	19,672	45,922	45,401	41,270	39,795	99,660	164,829	155,849	56,465	83,881	10,745	767,044
Salmon	18,567	21,402	46,439	105,457	551,166	508,859	1,007,507	298,519	137,654		2,581	32,257	2,730,208
Sand Dab	39,425	55,709	65,141	50,456	56,103	70,797	94,915	87,912	77,239	89,351	86,405	47,251	821,204
Sardine	202,204,714	62,912,930	33,978,517	518,822	331,198	312,786	399,884	417,344	47,434,383	223,420,586	280,107,447	308,754,970	1,160,793,581
Sculpin	7,824	13,594	17,492	11,039	13,336	12,875	11,157	11,113	5,617	6,740	10,362	7,479	128,628
Sea-bass, Black	27,949	17,753	39,272	9,430	16,635	29,242	61,676	116,813	38,100	49,846	48,019	6,208	460,943
Sea-bass, Short-fin			35	30	1,276	1,259							2,600
Sea-bass, Totuava	174,170	426,335	594,534	344,654	270,753	74,386	25,212				138,881	255,525	2,304,450
Sea-bass, White	5,339	3,418	29,239	63,498	37,544	35,202	59,216	64,149	298,946	206,956	136,316	54,573	994,396
Sea-trout, California				11				13					24
Shad		1,438	110,401	383,550	821,379								1,316,768
Shark	877,279	326,471	53,831	48,839	641,419	1,436,896	1,141,330	889,126	622,237	793,683	1,035,606	1,361,033	9,227,750
Sheepshead	4,940	7,445	8,469	5,103	5,528	1,912	496	2,121	2,410	2,097	15,978	14,857	71,361
Skate	43,127	41,086	31,753	17,084	20,213	21,791	24,992	25,792	32,862	28,150	22,762	27,242	336,854

MONTHLY COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1939—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Smelt	61,789	59,671	59,842	35,016	22,923	30,975	32,890	43,711	34,582	38,936	28,666	25,685	474,686
Sole	689,772	1,482,605	973,496	767,248	861,171	762,447	684,516	714,152	669,700	773,500	805,115	561,070	9,744,792
Split-tail	1,477	318	466	112	40				20	3,935	4,788	4,305	15,461
Sucker	22	31											53
Swordfish, Broadbill						29,957	211,747	238,879	91,707	21,274	321	475	594,360
Tomcod	360		1,015								2,405	895	4,675
Tuna, Albacore	20,806	108,353	389,407	924,098	436,152	1,202,298	1,299,767	2,286,430	7,262,151	2,449,387	44,385		16,423,234
Tuna, Bluefin			10,803	406,523	2,668,983	1,994,410	2,705,461	3,835,064	207,231	2,525	4,095	620	11,835,715
Tuna, Bonito	98,404	3,873	44,800	364,937	866,554	1,141,386	236,330	3,207,488	1,985,285	1,627,934	210,077	131,807	9,918,875
Tuna, Skipjack	359,325	925,119	1,495,001	2,029,961	3,073,929	1,905,177	3,861,227	3,089,930	5,197,551	3,403,550	3,689,413	2,156,767	31,186,950
Tuna, Yellowfin	1,049,949	8,459,938	10,921,455	12,648,282	10,858,819	10,520,241	11,665,579	15,828,429	7,054,770	7,297,582	6,576,089	7,536,668	110,417,801
Turbot	1,300	3,908	11,842	7,052	7,397	10,891	8,710	13,191	21,651	9,958	5,780	2,905	104,585
Whitebait	9,907	28,334	22,865	31,304	24,092	19,043	15,930	10,506	1,579	549	82	1,944	166,135
Whitefish, Ocean	10,751	4,000	5,846	1,617	294	893	326	1,589	1,808	1,346	4,866	10,352	43,688
Yellowtail	30,109	11,858	37,422	158,135	42,899	638,961	427,128	332,050	398,065	196,999	391,532	201,130	2,866,288
Miscellaneous Fish	18,627	16,088	18,891	23,646	36,142	28,309	20,035	15,591	17,942	16,004	23,299	37,281	271,855
Crustacean:													
Crab	481,858	441,648	715,902	763,540	784,142	695,413	702,058	490,518	11,700		385,108	472,618	5,944,505
Crab, Rock	39	715	1,812	200	96	200	469	20			38	395	3,984
Lobster, Spiny	342,498	292,549	187,947							128,233	146,276	192,393	1,289,896
Shrimp	84,028	54,661	74,763	67,933	95,506	224,913	196,130	114,793	104,999	77,437	54,485	30,602	1,180,250
Mollusk:													
Abalone	3,800		244,099	224,461	255,025	136,363	260,887	252,813	311,604	62,438	23,325	29,625	1,804,440
Clam, Cockle	1,821	1,889	3,281	2,065	2,465	2,273	1,643	743	630	3,949	1,290	1,021	23,070
Clam, Gaper	266	404	423	407	336	454	434	380	240	220	212	198	3,974
Clam, Pismo	13,422	16,685	16,945	12,986	14,674	17,589	20,339	16,809	17,686	16,481	15,178	13,900	192,694
Clam, Razor				25	40	50	40	20					175
Clam, Soft-shell	7,149	6,636	6,597	6,085	7,227	7,091	6,894	6,622	5,592	5,889	5,922	4,017	75,721
Clam, Washington	2,654	2,797	3,058	1,814	446	434	377	184	2,923	1,834	2,580	2,034	21,135
Mussel					1,800								1,800
Octopus	1,358	1,960	6,143	5,943	4,295	3,086	2,913	1,995	707	185	522	409	29,516
Oyster, Eastern	13,249	15,155	13,768	10,701	6,055	5,584	5,015	5,686	9,831	12,844	12,202	20,594	130,684
Oyster, Japanese	127,691	196,808	179,805	174,702	119,149	80,143	65,828	73,723	109,497	172,636	162,381	136,097	1,598,460
Oyster, Native	1,965	1,731	1,112	71		1,641	2,727	1,880	428	110	10	2,076	13,751
Scallop						300							300
Squid	21,344	235	70,155	380,095	46,570	303,155	185,015	30,565	42,945	33,682	46,265	2,030	1,162,056
Total pounds	219,527,452	76,879,316	53,282,782	22,178,951	24,325,781	25,368,943	30,680,446	40,111,969	81,766,398	253,564,919	316,027,664	342,518,837	1,486,233,458

COMMERCIAL FISH LANDINGS IN DEL NORTE AND EUREKA REGION DURING 1939

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cultus, Pacific	1,492	6,880	57,515	21,133	23,962	16,536	35,881	43,184	22,362	37,369	35,657	8,376	310,347
Flounder, Starry	728	1,248	22,283	51,275	19,193	28,390	11,550	48,220	24,700	19,360	12,915	2,335	242,197
Hake				200		250	395	115	100	460	2,350		3,870
Halibut, California					305	50	1,370						1,725
Halibut, Northern				77,080	117,467	58,881	103,147	6,282	6,862	6,892			376,611
Herring, Pacific		10,075	4,400										14,475
Mackerel, Pacific								18					18
Perch	12	13	1,829	1,209			1,382	366	64				4,875
Rockfish	12,547	9,375	98,157	109,888	113,355	24,847	72,232	50,259	48,453	78,830	106,279	28,995	753,217
Sablefish	230	1,006	19,022	27,741	21,527	22,492	82,643	157,634	151,050	47,783	60,445	4,120	595,693
Salmon				35,377	253,127	365,820	612,031	279,014	127,754				1,673,123
Sand Dab			12,585	33,455	26,404	30,998	22,042	28,485	4,530	12,515	29,880	14,426	215,320
Sea-trout, California				11									11
Shark	1,333	1,423	2,983	1,272	1,030	575	4,800	338	9,223	2,056	11,871	1,568	38,472
Skate	350	140	3,570	9,160	8,240	8,280	12,610	9,230	4,190	410	920	1,420	58,520
Smelt		27	460	91	264	2,321	2,439	3,869	6,040	5,567	170	487	21,735
Sole	38,925	23,748	489,036	604,331	640,660	491,742	342,171	313,413	165,400	272,435	506,584	169,940	4,058,385
Tomcod			875								2,355	575	3,805
Tuna, Albacore								2,922					2,922
Turbot					420								420
Whitebait	9,291	27,397	20,140	26,432	18,727	11,907	14,844	9,653	795	107			139,293
Miscellaneous Fish	610	455	8,105	17,755	16,145	18,290	13,915	9,225	3,038	6,461	9,966	6,485	110,450
Crustacean:													
Crab	41,700	112,802	265,370	369,246	393,968	305,645	271,676	186,766	11,700			43,536	2,002,409
Mollusk:													
Clam, Cockle										2			2
Clam, Razor				25	40	50	40	20					175
Clam, Soft-shell	36	32	79	48	42	75	23	12	60	83	44		534
Clam, Washington	2,404	2,470	2,722	1,243	78				2,819	1,644	2,361	1,820	17,561
Mussel					1,800								1,800
Octopus	72		933	1,014	115		44		185	81	78	16	2,538
Oyster, Eastern	600	3,982	1,905								35		6,522
Oyster, Native											10	1,895	1,905
Total pounds	110,330	201,073	1,011,969	1,387,986	1,656,869	1,387,149	1,605,235	1,149,025	589,325	492,055	781,920	285,994	10,658,930

COMMERCIAL FISH LANDINGS IN DEL NORTE AND EUREKA REGION DURING 1939—Continued

Fishing Boat Landings from Waters North of State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cultus, Pacific						1,450							1,450
Halibut, Northern				175		985							1,160
Rockfish						1,326							1,326
Salmon				6		22							28
Sand Dab				175		3,810							3,985
Skate						130							130
Sole				6,300		73,668							79,968
Miscellaneous Fish						1,175							1,175
Crustacean:													
Crab				216		2,328							2,544
Mollusk:													
Scallop						300							300
Total pounds				6,872		85,194							92,066
Grand total	110,330	201,073	1,011,969	1,394,858	1,656,869	1,472,343	1,605,235	1,149,025	589,325	492,055	781,920	285,994	10,750,996

COMMERCIAL FISH LANDINGS IN SACRAMENTO REGION DURING 1939

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Carp	1,303	130	5,792	2,386	926	1,195	529		389	301	293	969	14,213
Catfish	15,795	4,780	26,307	38,242	5,421	5,048	5,700	4,885	35,815	29,664	27,354	18,003	217,014
Flounder, Starry			25									345	370
Hardhead	2,208	21	22								850	9,820	12,921
Pike	17	12	64		12				23		25	30	183
Salmon	18,567	9,642	35,588	51,247	279,446	54,630		3,075	9,900		2,581	32,257	496,933
Sardine	25,404,700									23,833,100	22,028,110	24,306,165	95,572,075
Shad		1,438	109,931	383,547	821,379								1,316,295
Shark							67,109	127,437	272,093	315,094	403,671	354,791	1,540,195
Split-tail	1,477	318	466	112	40				20	3,935	4,788	4,305	15,461
Sucker	22	31											53
Total pounds	25,444,089	16,372	178,195	475,534	1,107,224	60,873	73,338	135,397	318,240	24,182,094	22,467,672	24,726,685	99,185,713

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy	----------	2,675	92,895	61,200	28,400	11,340	----------	1,000	637	1,260	15,500	----------	214,907
Cabezone	----------	98	80	30	----------	----------	----------	----------	----------	----------	----------	----------	208
Cultus, Pacific	10,058	13,505	36,124	25,987	17,373	10,604	10,244	10,913	30,971	10,735	9,563	6,734	192,811
Flounder, Starry	6,862	45,689	22,948	9,334	9,015	10,652	16,915	32,006	128,540	136,872	42,189	17,070	478,092
Hake	1,050	1,610	----------	----------	----------	----------	2,250	345	2,839	822	345	380	9,641
Halibut, California	158	2,542	2,499	2,272	1,333	489	704	856	1,115	5,093	4,924	3,276	25,261
Halibut, Northern	----------	----------	----------	----------	----------	----------	21	----------	----------	----------	----------	----------	21
Herring, Pacific	160,650	78,950	20,525	----------	----------	----------	----------	----------	----------	----------	4,050	14,224	278,399
Kingfish	563	----------	590	18	1,770	585	10	----------	----------	1,080	----------	770	5,386
Mackerel, Pacific	----------	----------	----------	----------	----------	----------	----------	----------	----------	95	----------	----------	95
Perch	4,826	4,862	15,041	10,589	----------	----------	3,632	5,287	5,832	4,729	1,969	1,228	57,995
Ratfish	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	750	750
Rockfish	47,879	75,991	70,418	39,127	23,735	16,482	11,700	14,633	40,927	13,115	15,060	19,499	388,566
Sablefish	600	----------	655	404	1,419	640	1,050	3,112	525	1,849	1,120	3,383	14,757
Salmon	----------	11,760	3,297	----------	13,610	56,139	333,390	16,430	----------	----------	----------	----------	434,626
Sand Dab	34,934	53,445	46,390	8,351	13,014	27,033	60,313	53,489	70,471	70,750	42,461	32,038	512,689
Sardine	58,723,064	9,700	1,860	82,200	39,700	31,000	186,500	293,900	443,600	89,287,502	120,977,518	126,194,120	396,270,664
Sea-bass, White	----------	----------	----------	----------	----------	----------	----------	----------	8,082	7,722	522	491	16,817
Shad	----------	----------	470	----------	----------	----------	----------	----------	----------	----------	----------	----------	470
Shark	432,040	237,147	17,123	1,490	7,179	16,692	147,789	376,241	263,963	410,400	478,267	703,053	3,091,384
Skate	34,916	33,361	21,617	2,975	3,413	5,863	7,364	13,322	25,704	21,568	16,378	18,117	204,598
Smelt	20,203	33,548	36,680	10,349	3,834	15,458	13,489	15,791	8,067	7,135	1,987	5,772	172,313
Sole	614,798	721,171	408,554	56,056	81,172	128,791	253,596	392,508	487,665	443,085	242,781	377,644	4,207,821
Tomcod	360	----------	140	----------	----------	----------	----------	----------	----------	----------	50	320	870
Tuna, Albacore	----------	----------	----------	----------	----------	----------	----------	2,156	454,732	5,386	----------	----------	462,274
Tuna, Bluefin	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	4,095	620	4,715
Turbot	250	3,148	11,462	6,691	6,503	10,339	8,610	13,191	21,651	9,783	5,255	2,580	99,463
Whitebait	616	937	2,468	2,991	4,462	5,837	1,035	846	784	442	82	1,944	22,444
Miscellaneous Fish	12,795	13,502	9,063	1,550	771	1,042	2,938	5,073	5,313	7,648	5,231	7,438	72,364
Crustacean:													
Crab	300,410	277,956	362,958	344,546	373,212	377,318	427,980	303,702	----------	----------	372,888	420,446	3,561,416
Shrimp	83,554	54,082	73,974	67,846	95,506	224,913	196,125	114,793	104,999	77,437	53,810	28,940	1,175,979
Mollusk:													
Clam, Cockle	30	20	38	37	59	23	19	----------	4	11	16	30	287
Clam, Gaper	266	404	423	407	300	454	434	380	240	220	212	198	3,938
Clam, Soft-shell	7,113	6,604	6,518	6,037	7,185	7,016	6,871	6,610	5,532	5,806	5,878	4,017	75,187
Clam, Washington	250	327	336	571	368	434	377	184	104	190	219	214	3,574
Octopus	49	160	1,187	703	521	135	195	----------	----------	----------	24	33	3,007
Oyster, Eastern	12,649	11,173	11,863	10,701	6,055	5,584	5,015	5,686	9,831	12,844	12,167	20,594	124,162
Oyster, Japanese	125,588	193,848	176,862	171,485	116,138	77,823	63,040	73,723	109,497	172,636	162,381	136,097	1,579,118
Oyster, Native	1,965	1,731	1,112	71	----------	1,641	2,727	1,880	428	110	----------	181	11,846
Total pounds	60,638,496	1,889,946	1,456,170	924,018	856,047	1,044,327	1,764,333	1,758,057	2,232,053	90,716,325	122,476,942	128,022,201	413,778,915

COMMERCIAL FISH LANDINGS IN MONTEREY REGION DURING 1939

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy	35	450	3,040	3,080	1,360	300	2,455	1,250					11,970
Cabezone	73	43	655	1,577	180	198	15	329	138	27	334	17	3,586
Cultus, Pacific	6,138	2,116	10,597	8,111	10,001	4,125	6,123	3,939	1,075	2,569	8,488	4,015	67,297
Flounder, Starry	1,181	3,611	2,353	2,083	3,088	1,017	1,240	123	108	169	566	756	16,295
Hake				150									150
Halibut, California	2,052	1,236	924	616	699	2,818	10,735	5,534	955	786	1,466	1,066	28,887
Herring, Pacific	185	990											1,175
Kingfish	17,169	6,784	9,245	10,632	23,963	20,074	24,507	5,769	8,549	32,443	17,132	12,765	189,032
Mackerel, Horse	1,091	9,830	7,887	9,341	3,235	5,484	17,304	10,308	7,740	1,154	8,597	524	82,495
Mackerel, Pacific	22,485	12,764	34,436	23,988	21,466	10,739	33,817	58,375	350,232	101,682	85,278	73,171	828,433
Perch	1,780	67	5,282	10,498	15		6,286	901	164	780		160	25,933
Pompano, California			9		31	96	2	55	8				201
Rockfish	138,256	45,899	189,092	158,051	189,458	156,269	81,212	69,629	21,102	49,796	109,655	120,101	1,328,520
Sablefish		225	14	823	5,005	10,169	10,469	280	162	1,112	4,547	1,112	33,918
Salmon			7,554	18,827	4,983	32,248	61,886						125,498
Sand Dab	4,051	1,617	5,242	7,909	16,245	8,479	12,166	5,852	2,111	6,225	13,674	454	84,025
Sardine	69,491,670	84,470	130,095	189,275	282,645	264,750	199,330	78,475	46,867,636	109,789,935	97,411,521	104,809,685	429,599,487
Sea-bass, Black												245	245
Sea-bass, White	17	105	94	417			108	22,019	39,629	10,846	27,104	3,450	103,789
Sea-trout, California								13					13
Shad				3									3
Shark	427,872	68,552	5,289	5,467	3,810	21,482	422,753	360,097	36,941	52,457	130,879	288,283	1,823,882
Skate	4,155	2,349	1,438	3,404	5,889	3,766	3,021	792	586	2,477	1,799	1,059	30,735
Smelt	22,188	985	5,878	1,771	1,727	6,673	12,506	15,097	9,469	10,230	8,716	3,991	99,231
Sole	29,024	719,981	44,217	71,280	118,897	49,608	39,900	597	2,272	46,527	47,618	4,611	1,174,532
Tuna, Albacore								917,702	2,831,657	778,763	700		4,528,822
Tuna, Bonito									11			17	28
Turbot	1,050	760	380	361	474	552	100			175	525	325	4,702
Whitebait			257	1,881	903	1,299	51	7					4,398
Miscellaneous Fish	753	178		1,138	2,015	804	425	17	60	375	246	175	6,186
Crustacean:													
Crab	139,748	50,890	87,574	49,532	16,962	10,122	2,402	50			12,220	8,636	378,136
Shrimp	474	579	789	87			5				675	1,662	4,271
Mollusk:													
Abalone			129,650	136,025	134,850	33,300	81,975	115,350	88,650	56,350	725	12,575	789,450
Clam, Gaper					36								36
Clam, Pismo	1,019	3,675	2,089	844					1,631	2,709	2,468	1,895	16,330
Octopus	1,226	1,788	3,928	4,224	3,657	2,950	2,613	1,995	522		206	146	23,255
Squid	9,740	235	68,700	380,095	46,570	302,820	185,015	30,565	42,945	7,085	22,015	2,030	1,097,815
Total pounds	70,323,432	1,020,179	756,708	1,101,490	898,164	950,142	1,218,421	1,705,120	50,314,353	110,954,672	97,917,154	105,352,926	442,512,761

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda		14,557		7,809	160	135		110	16,531	11,467	16	18,174	68,959
Cabezone			166	25				9	9			20	229
Cultus, Pacific	20	38	369	226	152				7	56	11	52	931
Flounder, Starry			68						471	506	1,219		2,264
Flying Fish							68	13					81
Halibut, California	21,200	24,166	28,772	17,080	20,346	13,325	26,210	30,570	35,590	36,999	36,956	39,119	330,333
Halibut, Northern	10	23											33
Herring, Pacific			971	485									1,456
Kingfish			60	153	58	43	40	4	88		43	50	539
Mackerel, Pacific	3,422	2,031	697	179		599	1,059	365	6,151	4,453	5,974	5,153	30,083
Perch	208	2,733	7,854	2,100		3	49	7,026	96	7	290		20,366
Rock Bass	2,707	2,135	3,485	2,807	1,835	7,750	3,004	7,786	1,166	189	1,903	4,634	39,401
Rockfish	26,953	23,605	33,889	26,670	8,546	9,500	8,208	6,224	7,249	2,058	21,377	26,760	201,039
Sablefish						23							23
Sand Dab								7					7
Sardine	220		2,480	240	80	438					167		3,625
Sculpin	78	13	283			10				16	2		402
Sea-bass, Black	1,118	1,821	1,318	3,192	1,331	1,840	1,364	712	140	194	99	44	13,173
Sea-bass, White	2,494	1,596	13,178	4,782	982	373	490	529	69,022	66,397	39,099	22,932	221,874
Sheepshead	718	50	614	681	1,616		245	405	768	19	10,020	9,713	24,849
Shark	13,096	15,828	20,457	17,000	570,161	1,363,808	449,635	15,609	5,576	4,176	4,635	10,142	2,490,123
Skate	2,504	3,429	1,685	905	2,290	2,285	1,496	1,633	1,569	3,495	3,665	6,608	31,564
Smelt	2,276	4,207	1,801	10,632	2,560	729	901	705	438	141	33	234	24,657
Sole	6,559	16,755	29,543	28,623	20,095	17,810	48,155	7,388	14,158	10,910	7,882	8,816	216,694
Swordfish, Broadbill							17,785	28,746	25,466	3,083			75,080
Tuna, Albacore							11,942	86,054	720,771	732,838	10,150		1,561,755
Tuna, Bluefin							7,005	2,628	94				9,727
Tuna, Bonito	70			115			203	5,092	12,366	10,711	8,571	444	37,572
Tuna, Skipjack									10				10
Tuna, Yellowfin								38		37			75
Whitefish, Ocean	2,185	1,198	368	470	235	15	180				2,393	6,472	13,516
Miscellaneous Fish	1,418	1,045	383	1,053	566	3,575	396	237	502	327	520	179	10,201
Crustacean:													
Lobster, Spiny	11,195	5,241	3,844							44,935	39,012	18,011	122,238
Mollusk:													
Abalone	3,700		114,262	88,050	119,650	102,650	178,175	137,050	222,700	6,050	22,600	17,050	1,011,937
Clam, Cockle				20									20
Clam, Pismo	12,403	13,010	14,856	12,142	14,674	17,589	20,339	16,809	16,055	13,772	12,710	12,005	176,364
Octopus			95				61					11	167
Oyster, Japanese	2,103	2,960	2,943	3,217	3,011	2,320	2,788						19,342
Total pounds	116,657	136,441	284,441	228,656	768,348	1,544,820	779,798	355,749	1,157,009	952,822	229,345	206,623	6,760,709

COMMERCIAL FISH LANDINGS IN SANTA BARBARA REGION DURING 1939—Continued

Fishing Boat Landings from Waters South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	36,100	20,975	54,465										111,540
Sea-bass, Black			200										200
Total pounds	36,100	20,975	54,665										111,740
Grand total	152,757	157,416	339,106	228,656	768,348	1,544,820	779,798	355,749	1,157,009	952,822	229,345	206,623	6,872,449

COMMERCIAL FISH LANDINGS IN LOS ANGELES REGION DURING 1939

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy	17,527	3,260	3,079	4,017	4,772	4,045	8,810	10,686	166,646	828,444	370,254	499,484	1,921,024
Barracuda	21	62,897	310,579	360,982	326,219	413,328	171,109	124,865	57,891	100,390	4,516	8,886	1,941,683
Catfish									22				22
Cultus, Pacific	27	84	136	24			7		81	43	1,130	25	1,557
Flying Fish					2,653	4,098	3,797	5,699	3,879				20,126
Halibut, California	26,485	44,119	70,895	34,933	24,040	41,498	26,892	13,513	8,093	5,495	5,151	9,694	310,808
Kingfish	23,469	53,199	62,691	49,106	34,367	19,647	9,223	8,241	17,696	34,648	26,382	8,550	347,219
Mackerel, Horse	2,567,525	47	122,903		495	24,890	50,005	14,841	438,455	3,330	415,644	38,245	3,676,380
Mackerel, Pacific	9,240,394	10,109	883,017	28,504	40,258	1,058,465	2,523,501	5,767,954	7,555,118	10,063,133	19,360,326	17,123,778	73,654,557
Mullet					19				78				97
Perch	7,029	1,758	5,839	8,280	919	867	286	2,141	849	860	938	1,007	30,773
Pompano, California	2		280	62	34	4	11	42	397	1,083	958	330	3,203
Rock Bass	2,364	5,924	8,456	5,919	2,780	20,896	25,579	13,249	2,865	4,551	5,341	3,712	101,636
Rockfish	37,784	35,742	75,750	41,965	15,969	30,222	14,547	4,711	7,706	9,322	17,628	19,129	310,475
Sablefish	2,725	18,441	26,231	16,433	13,319	6,471	5,498	3,803	4,112	5,721	17,769	2,130	122,653
Sand Dab	440	647	924	566	440	477	394	79	127	361	390	333	5,178
Sardine	48,546,257	62,506,470	33,565,217	246,230	7,908	9,763	13,495	44,114	122,173	508,803	39,528,529	53,417,132	238,516,091
Sculpin	2,187	5,939	10,870	8,422	9,659	12,658	11,157	9,179	4,653	6,098	4,259	3,727	88,808
Sea-bass, Black	1,659	229	874	1,111	4,736	2,216	947	1,186	904	295	528	580	15,265
Sea-bass, White	1,370	356	9,595	50,458	30,519	17,089	12,651	7,317	69,383	84,641	46,113	3,229	332,721
Shark	1,893	2,332	6,979	20,349	56,126	33,137	37,312	9,227	25,786	6,897	5,048	3,168	208,254
Sheepshead	1,166	6,084	6,343	3,926	3,912	508	251	1,697	1,005	792	1,570	1,888	29,142
Skate	1,202	1,807	3,443	640	381	1,467	501	815	813	200		38	11,307
Smelt	17,118	20,904	13,760	12,173	14,538	5,554	3,415	8,249	10,452	14,923	14,920	12,964	148,970
Sole	456	928	1,159	640	347	541	618	163	194	285	173	29	5,533
Swordfish, Broadbill						23,314	65,387	64,558	28,373	12,954	321		194,907
Tuna, Albacore							503,772	924,885	124,355	16,197	33,245		1,602,454
Tuna, Bluefin				204,759	1,451,321	910,554	1,921,580	3,243,734	180,645	40			7,912,633
Tuna, Bonito	65,904	1,755	38,445	106,501	631,715	981,688	31,322	938,977	1,263,814	1,535,742	118,203	64,685	5,778,751
Tuna, Skipjack								21,829	147,512	4,890			174,231
Tuna, Yellowfin		50					61	4,357	35,250	319			40,037
Whitefish, Ocean	2,167	1,390	2,170	95	59	269	19	145	73	112	481	799	7,779
Yellowtail				88,998	2,613	6,025	504	812	3,663	58	585	16	103,274
Miscellaneous Fish	2,951	817	1,340	2,150	16,621	3,183	1,893	1,025	8,905	1,029	6,916	22,824	69,654
Crustacean:													
Crab, Rock	39	715	1,812	200	96	200	469	20			38	395	3,984
Lobster, Spiny	17,594	7,419	2,655							52,371	63,921	26,756	170,716
Mollusk:													
Abalone	100		187	386	525	413	737	413	254	38			3,053
Clam, Cockle	1,791	1,869	3,243	2,008	2,406	2,250	1,624	743	626	1,773	1,274	991	20,598
Octopus	11	12		2	2	1				104	214	203	549
Squid	11,604					335				26,597	24,250		62,786
Total pounds	60,601,261	62,795,303	35,238,872	1,299,839	2,699,768	3,636,073	5,447,374	11,253,269	10,292,848	13,332,539	60,077,015	71,274,727	337,948,888

COMMERCIAL FISH LANDINGS IN LOS ANGELES REGION DURING 1939—Continued

Fishing Boat Landings from Waters North of State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore									793,151	502,872			1,296,023
Total pounds									793,151	502,872			1,296,023

Fishing Boat Landings from Waters South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	57,383	68,954	26,902							97,244	166,768	59,277	476,528
Cabrilla	13,058	8,679	6,511			22,996	8,315	6,689			12,118	10,213	88,579
Cultus, Pacific			173										173
Grouper	5,352	3,734	562			2,604					3,255	5,433	20,940
Halibut, California			13,074		8,367								21,441
Mackerel, Spanish	5,337	936	2,082						55	80	2,825	1,255	12,570
Rock Bass	1,796	3,121									1,806	439	7,162
Rockfish			40,575		4,718								45,293
Sea-bass, Black	11,490	6,998	4,652		1,690	564	7,560	61,933	25,734	44,634	29,894	2,042	197,191
Sea-bass, White	15		294				37	57		35	212	519	1,169
Shark	128				1,086				35				1,249
Sheepshead		287	407										694
Swordfish, Broadbill							21,909	43,910					65,819
Tuna, Albacore								500					500
Tuna, Bluefin			10,803	199,793	1,006,626	747,085	216,567	260,136	13,510	2,456			2,456,976
Tuna, Bonito	3,615	1,339			4,575	136,180	98,771	2,067,639	646,022	220	19,841	3,168	2,981,370
Tuna, Skipjack	186,825	267,104	597,602	1,690,459	2,265,622	932,180	2,527,725	1,043,817	1,616,848	674,194	899,934	313,304	13,015,614
Tuna, Yellowfin	733,412	1,185,834	2,048,601	7,243,348	6,204,806	3,004,226	5,190,154	5,786,424	1,887,943	1,025,719	910,944	889,264	36,110,675
Whitefish, Ocean	480		2,285									100	2,865
Yellowtail	9,388	3,587	2,858			312,834	109,061	140,781	283,537	4,815	20,754	20,363	907,978
Miscellaneous Fish	100				24							100	224
Crustacean:													
Lobster, Spiny											1,205	12,605	13,810
Total pounds	1,028,379	1,550,573	2,757,381	9,133,600	9,497,514	5,158,669	8,180,099	9,411,886	4,473,684	1,849,397	2,069,556	1,318,082	56,428,820

Shipments from North of State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore								121,507	1,823,659	401,330			2,346,496
Tuna, Bluefin									44				44
Total pounds								121,507	1,823,703	401,330			2,346,540

Shipments from South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cabrilla	830	65	1,510		11,353	12,927	1,410	1,455			122	539	30,211
Corbina, Mexican	2,634	11,116	24,528	360	98	2,068					2,798		43,602
Sea-bass, Black		118											118
Sea-bass, Totuava	174,170	426,335	594,534	344,654	270,753	74,386	25,212				138,881	255,525	2,304,450
Miscellaneous Fish		26											26
Mollusk:													
Clam, Cockle										2,163			2,163
Total pounds	177,634	437,660	620,572	345,014	282,204	89,381	26,622	1,455		2,163	141,801	256,064	2,380,570

Shipments from Japan

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore	20,806	108,353	389,407	924,098	436,152	1,202,298	775,548	131,306	88,408				4,076,376
Tuna, Skipjack		210,059	102,852	24,072				39,941	57,893		145,140	486,102	1,066,059
Total pounds	20,806	318,412	492,259	948,170	436,152	1,202,298	775,548	171,247	146,301		145,140	486,102	5,142,435
Grand total	61,828,080	65,101,948	39,109,084	11,726,623	12,915,638	10,086,421	14,429,643	20,959,364	17,529,687	16,088,301	62,433,512	73,334,975	405,543,276

COMMERCIAL FISH LANDINGS IN SAN DIEGO REGION DURING 1939

Fishing Boat Landings from California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	81	6,212	78,246	183,627	90,188	93,591	138,581	202,405	77,329	69,539	18,809		958,608
Cultus, Pacific		39				42	35						116
Flounder, Starry							93						93
Flying Fish						114							114
Halibut, California	13,359	8,803	5,181	4,682	426	372	5,293	208	4,065	6,231	875		49,495
Herring, Pacific											522	6,215	6,737
Kingfish	83	142	76	61				56		8	216	8	650
Mackerel, Horse							1,280						1,280
Mackerel, Pacific	9,602	712	24,596	10,265	8,081	817,385	1,515,229	766,610	77,425	622,912	557,102	1,985,887	6,395,806
Mullet	1,020	678	503		469	86		165					2,921
Perch								245					245
Rock Bass	211	1,004	1,975	1,188	2,510	8,733	31,501	21,050	5,936	11,056	8,353	3,869	97,386
Rockfish	11,492	18,262	49,950	9,329	14,329	30,114	35,210	12,655	3,094	9,787	5,508	3,113	202,843
Sardine	38,803	312,290	278,865	877	865	6,835	559	855	974	1,246	161,602	27,868	831,639
Sculpin	5,559	7,642	6,339	2,489	3,677	207		1,934	948	640	6,103	3,752	39,290
Sea-bass, Black	346	45	45			1,407	323	1,123	716	276			4,281
Sea-bass, Short-fin			35	30	1,276	1,259							2,600
Sea-bass, White	583	431	1,660	6,766	3,213	16,614	38,226	32,948	16,476	13,215	1,068	203	131,403
Shark	857	1,189	1,000	2,077	1,535	592	11,932	177	8,620	2,603	1,235	28	31,845
Sheepshead	564	232	199	82		5		19		866	1,707	734	4,408
Smelt	4		1,263			240			116	940	2,840	1,778	7,181
Sole	10	22	987	18		287	76	83	11	258	77	30	1,859
Swordfish, Broadbill						6,348	26,854	11,344	10,686	2,936		475	58,643
Tuna, Albacore							8,505	96,388	699		290		105,882
Tuna, Bluefin				1,971	205,510	336,771	536,008	303,325	8,274				1,391,859
Tuna, Bonito	20,082	20	423	258,321	230,264	23,518	103,211	162,425	7,519	37,494	11,065	26,556	880,898
Tuna, Skipjack								58,755	1,355,896	564,242	532,891	32,616	2,544,400
Tuna, Yellowfin							20	19,529	198,380	199,364			417,293
Whitefish, Ocean	732	218						1,444				592	2,986
Yellowtail			1,311	7,068	19,071	56,342	29,027	20,892	4,592	12,835	123	7,989	159,250
Miscellaneous Fish						240	5	14	124	164	420	80	1,047
Crustacean:													
Lobster, Spiny	3,751	2,638	1,896							30,927	34,373	10,389	83,974
Mollusk:													
Squid			1,455										1,455
Total pounds	107,139	360,579	456,005	488,851	581,414	1,401,102	2,481,968	1,714,649	1,781,880	1,587,539	1,345,179	2,112,182	14,418,487

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore									424,042	12,001			436,043
Total pounds									424,042	12,001			436,043

Fishing Boat Landings from Waters South of International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	48,173	56,423	17,575	7,666		240		2,076	126,722	74,006	82,399	119,456	534,736
Cabrilla						17,265	5,493						22,758
Cultus, Pacific				429									429
Grouper		666		2,001	4,981	182	5,734		1,556	1,025	4,345		20,490
Halibut, California	20,611	34,559	28,231	17,459	19,477	3,771	49,999	14,233	20,667	7,407	20,392	11,290	248,096
Kingfish												75	75
Mackerel, Pacific	382												382
Mackerel, Spanish		943				121			125			2,282	3,471
Rock Bass	994		593	4,395	1,990	3,966	670		1,493	1,799	1,636	3,032	20,568
Rockfish	2,585	19,398	4,478	15,553	14,368	3,344	1,580		12,976	6,917	15,974	2,220	99,393
Sculpin				128									128
Sea-bass, Black	13,336	8,542	32,183	5,127	8,878	23,215	51,482	51,859	10,606	4,447	17,498	3,297	230,470
Sea-bass, White	860	930	4,418	1,075	2,830	1,126	7,704	1,279	96,354	24,100	22,198	23,749	186,623
Shark	60			1,184	492	610							2,346
Sheepshead	2,492	792	906	419		1,399			637	420	2,681	2,522	12,268
Smelt							140					459	599
Swordfish, Broadbill						295	79,812	90,321	27,182	2,301			199,911
Tuna, Albacore								3,010	677				3,687
Tuna, Bluefin					5,526		24,301	25,241	4,664	29			59,761
Tuna, Bonito	8,733	759	5,932				2,823	33,355	55,553	43,767	52,397	36,937	240,256
Tuna, Skipjack	172,500	447,956	794,547	315,430	808,307	972,997	1,333,602	1,925,588	2,019,392	2,160,224	2,111,448	1,324,745	14,386,636
Tuna, Yellowfin	316,537	7,274,054	8,872,854	5,404,934	4,654,013	7,516,015	6,475,344	10,018,081	4,933,197	5,072,143	5,665,145	6,647,404	73,849,721
Whitefish, Ocean	5,187	1,194	1,023	1,052		609	127		1,735	1,234	1,992	2,389	16,542
Yellowtail	20,721	8,271	23,253	62,069	21,215	263,760	288,536	169,565	106,273	179,291	370,070	172,762	1,695,786
Miscellaneous Fish		65					463						528
Crustacean:													
Lobster, Spiny	309,958	277,251	179,552								7,765	124,632	899,158
Total pounds	923,129	8,131,803	9,975,545	5,838,921	5,542,077	8,808,915	8,327,710	12,334,608	7,419,809	8,579,110	8,375,940	8,477,251	92,734,818
Grand total	1,030,268	8,492,382	10,431,550	6,327,772	6,123,491	10,210,017	10,809,678	14,049,257	9,625,731	10,178,650	9,721,119	10,589,433	107,589,348

COMMON AND SCIENTIFIC NAMES OF FISHES, CRUSTACEANS AND MOLLUSKS

FISHES

Common name	*Scientific name*
Anchovy	Anchoviella compressa
	Anchoviella delicatissima
	Engraulis mordax
Barracuda	Sphyraena argentea
Cabezone	Scorpaenichthys marmoratus
Cabrilla	Epinephelus analogus
	Various species of Mycteroperca
Carp	Cyprinus carpio
Catfish	Ameiurus catus
	Ameiurus nebulosus
Corbina, Mexican	Cynoscion othonopterus
	Cynoscion xanthulus
	Micropogon ectenes
	Other members of the Sciaenidae
Cultus, Pacific	Ophiodon elongatus
Dolphin	Coryphaena hippurus
Eel	Cebidichthys violaceus
	Xiphister mucosus
	Other stichaeids and blenniids
	Gymnothorax mordax
Flounder, Starry	Platichthys stellatus
Flying Fish	Cypselurus californicus
Grouper	Various species of Mycteroperca
Hake	Merluccius productus
Halibut, California	Paralichthys californicus
Halibut, Northern	Hippoglossus stenolepis
Hardhead	Orthodon microlepidotus
	Mylopharodon conocephalus
Herring, Pacific	Clupea pallasii
Kingfish	Genyonemus lineatus
Small percentage of Queenfish	Seriphus politus
Mackerel, Horse	Trachurus symmetricus
Mackerel, Pacific	Pneumatophorus diego
Mackerel, Spanish	Scomberomorus sierra
Mullet	Mugil cephalus
Perch:	
Halfmoon	Medialuna californiensis
Opal-eye	Girella nigricans
Salt-water	Various members of the Embiotocidae
Sargo	Anisotremus davidsoni
Pike	Ptychocheilus grandis
Pompano, California	Palometa simillima
Pompano, Mexican	Various species of Trachinotus, and possibly other carangids
Ratfish	Hydrolagus colliei
Rock Bass	Paralabrax clathratus
	Paralabrax nebulifer
Rockfish	All species of Sebastodes and Sebastolobus found in California waters
Sablefish	Anoplopoma fimbria
Salmon	Oncorhynchus tschawytscha
	Oncorhynchus kisutch

Common name	*Scientific name*
Sand Dab	Citharichthys stigmaeus
	Citharichthys sordidus
Sardine	Sardinops caerulea
Sculpin	Scorpaena guttata
Sea-bass, Black	Stereolepis gigas
Sea-bass, Short-fin	Cynoscion parvipinnis
Sea-bass, Totuava	Cynoscion macdonaldi
Sea-bass, White	Cynoscion nobilis
Sea-trout, California	Hexagrammos decagrammus
Shad	Alosa sapidissima
Shark	Alopias vulpes
	Galeorhinus zyopterus
	Mustelus californicus
	Notorynchus maculatus
	Prionace glauca
	Rhinotriacis henlei
	Squalus suckleyi
	Triakis semifasciata
	Small percentage of other species
Sheepshead	Pimelometopon pulcher
Skate	Raia binoculata
	Raja inornata
	Raja rhina
	And other species
Smelt	Atherinops affinis
	Atherinopsis californiensis
	Leuresthes tenuis
	Hypomesus pretiosus
	Small percentage of other Osmeridae
Sole	Eopsetta jordani
	Glyptocephalus zachirus
	Parophrys vetula
	Several other pleuronectids
Split-tail	Pogonichthys macrolepidotus
Sucker	Catostomus occidentalis
Swordfish, Broadbill	Xiphias gladius
Swordfish, Marlin	Makaira mitsukurii
Tomcod	Microgadus proximus
Tuna, Albacore	Germo alalunga
Tuna, Bluefin	Thunnus thynnus
Tuna, Bonito	Sarda lineolata
Tuna, Mebachi	Parathunnus mebachi
Tuna, Oriental	Thunnus orientalis
Tuna, Skipjack	Katsuwonus pelamis
Tuna, Yellowfin	Neothunnus macropterus
Turbot	Hypsopsetta guttulata
	Pleuronichthys decurrens
	Pleuronichthys verticalis
	Possibly a small percentage of other pleuronectids
Whitebait	Allosmerus attenuatus
	Spirinchus starksi
	Young of several species of fishes
Whitefish, Ocean	Caulolatilus princeps
Yellowtail	Seriola dorsalis
CRUSTACEANS	
Crab	Cancer magister
Crab, Rock	Cancer antennarius
	Cancer anthonyi
	Cancer productus
Lobster, Spiny	Panulirus interruptus
Shrimp	Crago franciscorum and C. nigricauda from California waters
	Other species from Mexican waters

MOLLUSKS

Common name	*Scientific name*
Abalone	Haliotis fulgens
	Haliotis rufescens
Clam, Cockle	Paphia staminea
	Species of Chione
Clam, Gaper	Schizothaerus nuttallii
Clam, Pismo	Tivela stultorum
Clam, Razor	Siliqua patula
Clam, Soft-shell	Mya arenaria
Clam, Washington	Saxidomus nuttalli
Mussel	Mytilus californianus
	Mytilus edulis
Octopus	Polypus hongkongensis
	Polypus bimaculatus
Oyster, Eastern	Ostrea virginica
Oyster, Japanese	Ostrea gigas
Oyster, Native	Ostrea lurida
Scallop	Pecten circularis
Squid	Dosidicus gigas
	Loligo opalescens
	Small percentage of other species
Whelk	Kellettia kellettii

DIVISION OF FISH AND GAME OF CALIFORNIA

BUREAU OF MARINE FISHERIES

FISH BULLETINS

* No. 1. Report on Fish Conditions. 1913; 48 pp., 3 figs.

* No. 2. The Scientific Investigation of Marine Fisheries, as Related to the Work of the Fish and Game Commission in Southern California. By Will F. Thompson. 1919; 27 pp., 4 figs.

* No. 3. The Spawning of the Grunion (*Leuresthes tenuis*). By Will F. Thompson, assisted by Julia Bell Thompson. 1919; 29 pp., 9 figs.

* No. 4. The Edible Clams, Mussels and Scallops of California. By Frank W. Weymouth. 1921; 74 pp., 19 pls., 26 figs.

* No. 5. A Key to the Families of Marine Fishes of the West Coast. By Edwin C. Starks. 1921; 16 pp., 4 figs.

* No. 6. A History of California Shore Whaling. By Edwin C. Starks. 1922; 38 pp., 22 figs.

* No. 7. The Life History and Growth of the Pismo Clam. By Frank W. Weymouth. 1923; 120 pp., 15 figs., 18 graphs.

* No. 8. Racial and Seasonal Variation in the Pacific Herring, California Sardine and California Anchovy. By Carl L. Hubbs. 1925; 23 pp., 4 pls.

* No. 9. Preliminary Investigation of the Purse Seine Industry of Southern California. By Tage Skogsberg. 1925; 95 pp., 23 figs.

* No. 10. The Life History of *Leuresthes tenuis*, an Atherine Fish with Tide Controlled Spawning Habits. By Frances N. Clark. 1925; 51 pp., 6 graphs, 7 pls.

* No. 11. The California Sardine. By the Staff of the California State Fisheries Laboratory. 1926; 221 pp., 74 figs.

No. 12. The Weight-Length Relationship of the California Sardine (*Sardina caerulea*) at San Pedro. By Frances N. Clark. 1928; 58 pp., 11 figs.

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* No. 15. The Commercial Fish Catch of California for the years 1926 and 1927. By the Bureau of Commercial Fisheries. 1929; 94 pp., 52 figs.

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* No. 17. Sacramento-San Joaquin Salmon (*Oncorhynchus tschawytscha*) Fishery of California. By G. H. Clark. 1929; 73 pp., 32 figs.

* No. 18. The Pismo Clam: Further Studies of its Life History and Depletion. By William C. Herrington. 1930; 67 pp., 16 figs.

* No. 19. Sardine Fishing Methods at Monterey, California. By W. L. Scofield. 1929; 61 pp., 27 figs.

* Out of print.

* No. 20. The Commercial Fish Catch of California for the Year 1928. By the Staff of the Bureau of Commercial Fisheries. 1930; 109 pp., 62 figs.

* No. 21. Analysis of Boat Catches of White Sea Bass (*Cynoscion nobilis*) at San Pedro, California. By S. S. Whitehead. 1930; 26 pp., 20 figs.

* No. 22. A Bibliography of the Tunas. By Genevieve Corwin. 1930; 103 pp.

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* No. 29. The Striped Bass of California. By Eugene C. Scofield. 1931; 82 pp., 46 figs.

* No. 30. The Commercial Fish Catch of California for the Year 1929. By the Staff of the Bureau of Commercial Fisheries. 1931; 133 pp., 75 figs.

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* No. 36. A Bibliography of the Sardines. By Genevieve C. Wheeler. 1931; 133 pp.

No. 37. The California Barracuda (*Sphyraena argentea*). By Lionel A. Walford. 1932; 120 pp., 32 figs., 6 pls.

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No. 42. Maturity of the California Sardine (*Sardina caerulea*), Determined by Ova Diameter Measurements. By Frances N. Clark. 1934; 49 pp., 19 figs.

No. 43. The Sizes of California Sardines Caught by the Different Fishing Gear and in the Different Localities of the Monterey and San Pedro Regions. By the California State Fisheries Laboratory. 1935; 59 pp., 27 figs.

No. 44. The Commercial Fish Catch of California for the Years 1930-1934, inclusive. By the Staff of the Bureau of Commercial Fisheries. 1935; 124 pp., 19 figs.

No. 45. The Sharks and Rays of California. By Lionel A. Walford. 1935; 66 pp., 58 figs.

No. 46. A Contribution toward the Life Histories of Two California Shrimps, *Crago franciscorum* (Stimpson) and *Crago nigricauda* (Stimpson). By Hugh R. Israel. 1935; 28 pp., 9 figs.

No. 47. Interseasonal and Intraseasonal Changes in Size of the California Sardine (*Sardinops caerulea*). By Frances N. Clark. 1936; 28 pp., 11 figs.

No. 48. Fishing Localities for the California Sardine, *Sardinops caerulea*, 1928 1936. By Frances N. Clark. 1937; 11 pp., 5 figs.

No. 49. The Commercial Fish Catch of California for the Year 1935. By the Bureau of Commercial Fisheries. 1937; 170 pp., 114 figs.

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